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CNC CHARLESTON
5090.3a

ABOVE GROUND STORAGE TANK (AST) ASSESSMENT REPORT DATED 9 MARCH 1998
AND NO FURTHER ACTION (NFA) FOR BUILDING 226 ABOVE GROUND STORAGE TANKS
226-1 AND 226-2 (AST 226-1 AND 226-2) WITH SOUTH CAROLINA DEPARTMENT OF
HEALTH AND ENVIRONMENTAL CONTROL REVIEW LE
05/14/1998
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



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

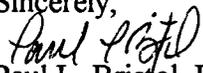
Re: Aboveground Storage Tank Assessment Report dated March 9, 1998
Bldg. 226 (AST 226-1/226-2) (Site Identification # 15405-General File)
Charleston Naval Complex/Charleston Naval Base
Charleston, SC
Charleston County

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

64.198
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

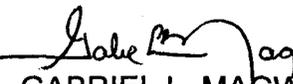
**UST ASSESSMENT REPORTS FOR CHARLESTON NAVAL COMPLEX,
CHARLESTON, SC**

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

Li 4.1.98
Lo 4.14.98
RECEIVED
MAR 12 1998
Water Monitoring, Assessment & Protection 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, Bldg 226
Street Address: Avenue "A"
City: North Charleston, 29405-2413 County: Charleston

III. CLOSURE INFORMATION

Closure Started: 1 Oct 97 Closure Completed: 26 Nov 97
Number of ASTs Closed: 2
N/A Consultant SPORTENVDETCHASN
AST 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.....

226-1	226-2	Tank 3	Tank 4	Tank 5
Fuel oil	Hydraulic oil			
500 gal	350 gal			
1976	1976			
Steel	Steel			
Unk.	Unk.			
N	N			
N	N			
R	R			
N	N			
N	N			

- L. Method of disposal for any ASTs removed.

ASTs 226-1 and 226-2 were removed, drained, cut open at both ends, and cleaned with a steam cleaner. They were 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, hydraulic fluid, waste water, and sludge for both tanks were recycled.

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

No corrosion, pitting, or holes were found on either AST 226-1 or 226-2.

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.....

226-1	226-2	Tank 3	Tank 4	Tank 5
Steel	Steel			
15' See note 1	3' See note 2			
1 See note 1	1 See note 2			
S	S			
Y	Y			
N	N			
N	N			
1976	1976			

Note 1: AST 226-1 provided heating fuel oil to building 226's boiler.

Note 2: AST 226-2 stored hydraulic fluid for a testing facility inside building 226.

- 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 the piping of either AST 226-1 or AST 226-2.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Building 226 was constructed in 1976. It served as a plating facility, hydraulic repair shop, and pump and valve testing shop. AST 226-1 was located on the west end, mounted flush to the building. AST 226-2 was located on the south side, adjacent to the building.

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#

* = Depth Below the Surrounding Land Surface

X. SAMPLING METHODOLOGY

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

Samples were not taken during the removal of AST 226-1 or AST 226-2, because the tanks were located on asphalt and concrete pavement. There was no exposed soil in the vicinity of the tanks.

XI. RECEPTORS

Yes No

<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the AST system? <div style="text-align: right;">[Cooper River ~ 370']</div> 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? <div style="text-align: right;">[Storm drain]</div> If yes, indicate the type of utility, distance, and direction on the site map.</p>	X	

Attachment I

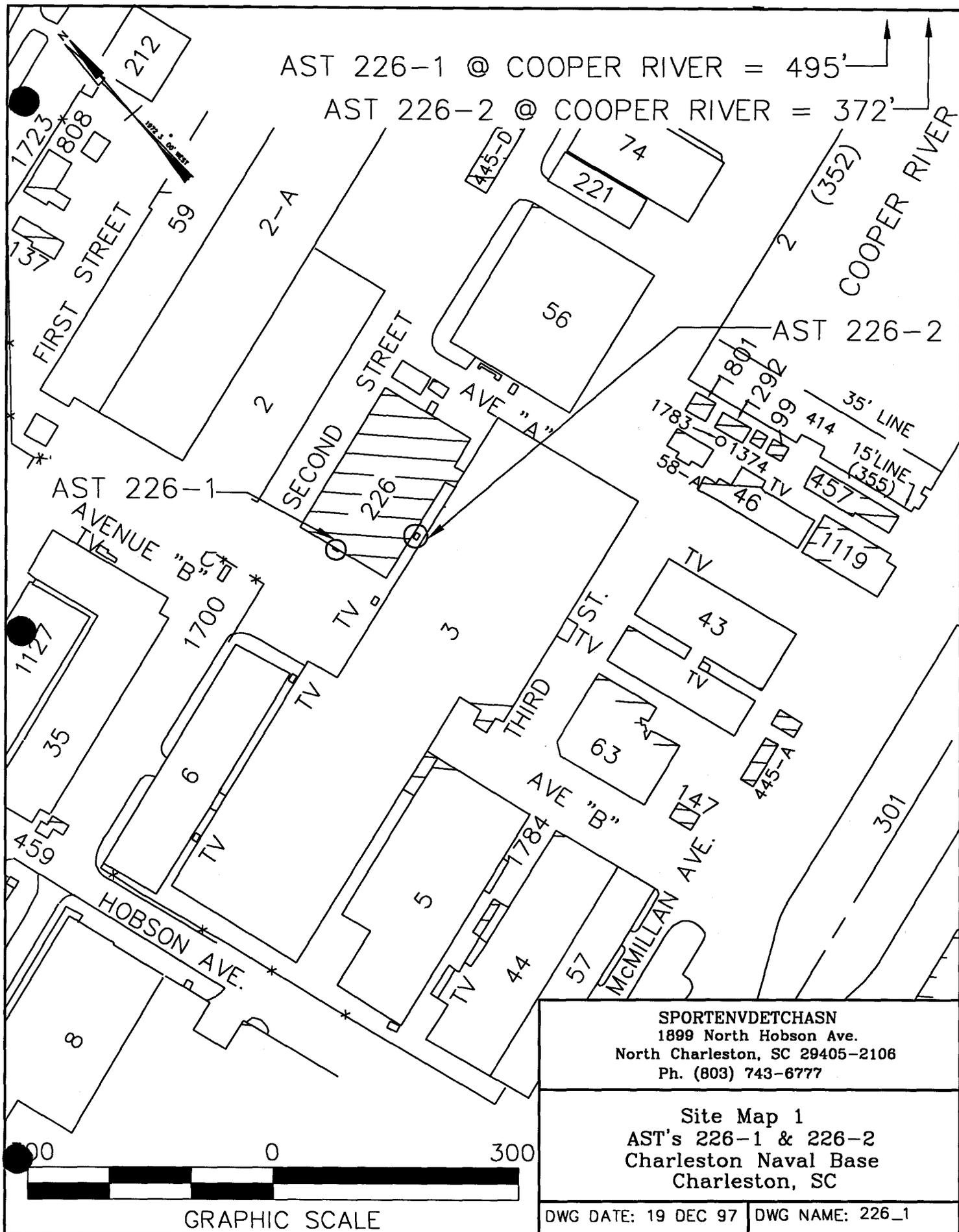
SITE MAP

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, 3, and 4
Photographs 1 and 2

AST 226-1 @ COOPER RIVER = 495'

AST 226-2 @ COOPER RIVER = 372'



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

Site Map 1
AST's 226-1 & 226-2
Charleston Naval Base
Charleston, SC

DWG DATE: 19 DEC 97

DWG NAME: 226_1

AST 226-1 @ COOPER RIVER = 495'

AST 226-2 @ COOPER RIVER = 372'

BLDG. 226

FORMER AST 226-2

FORMER AST 226-1

~A S P H A L T~
&
~C O N C R E T E~
P A V I N G

BLDG. 3

MONITORING WELL
NBCE 542-001

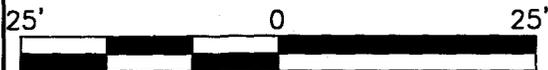
STORM DRAIN



STORM DRAIN



STORM DRAIN



GRAPHIC SCALE

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

Site Map 2
AST's 226-1 & 226-2
Charleston Naval Base
Charleston, SC

DWG DATE: 19 DEC 97

DWG NAME: 226_2

AST 226-1 @ COOPER RIVER = 495'

BLDG. 226

PLUGGED EXISTING
1" 90° ELBOWS

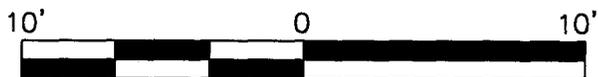
1972 3° 00' WEST

MONITORING WELL
NBCE 542-001



FORMER AST 226-1

~ ASPHALT ~
&
~ CONCRETE ~
PAVING



GRAPHIC SCALE

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

Site Map 3
AST 226-1
Charleston Naval Base
Charleston, SC

DWG DATE: 19 DEC 97

DWG NAME: 226_3

BLANKED FLANGES

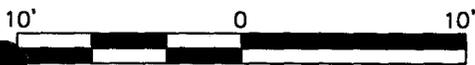
AST 226-2 @ COOPER RIVER = 372'

FORMER AST 226-2

BLDG. 226

BLDG. 3

~ ASPHALT ~
&
~ CONCRETE ~
PAVING



GRAPHIC SCALE

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

Site Map 4
AST 226-2
Charleston Naval Base
Charleston, SC

DWG DATE: 19 DEC 97 | DWG NAME: 226_4

AST 226-1



Photo 1: AST 226-1 prior to removal.

AST 226-2

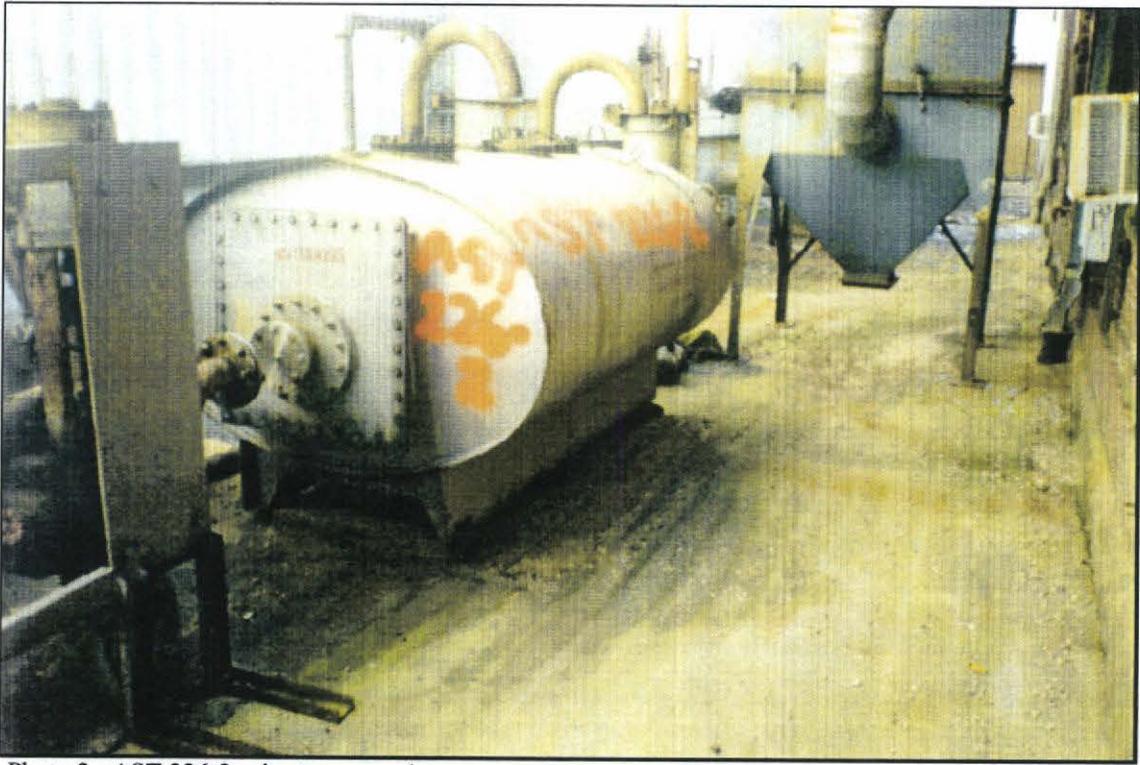


Photo 2: AST 226-2 prior to removal.

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 226-1; Charleston Naval Shipyard, Bldg 226, Avenue "A", N. Charleston, 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 12-19-97
(Date)

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 226-2; Charleston Naval Shipyard, Bldg 226, Avenue "A", N. Charleston, SC 29405

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK

Hydraulic fluid

SIZE (GAL)

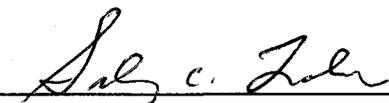
750 gal.

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

10-19-97
(Date)