N61165.AR.005702
CNC CHARLESTON
5090.3a

UNDERGROUND STORAGE TANK (UST) ASSESSMENT REPORT FOR ABOVE GROUND STORAGE TANKS (AST) 9B AND 9C CNC CHARLESTON SC

10/17/1996

ENVIRONMENTAL DETACHMENT CHARLESTON

L° 12.18.96
Lo 12.23.96
PLM

#17684

ASSESSMENT REPORT
AST 9B & 9C
NAVAL BASE CHARLESTON
CHARLESTON SC

Prepared for:

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON SC

Prepared by:

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, PORTSMOUTH DETACHMENT
ENVIROMENTAL CHARLESTON, SC
1899 NORTH HOBSON AVE.
NORTH CHARLESTON SC 29405-2106

RECEIVED
NOV 01 1996
Groundwater Assessment
and Development Section

October 17, 1996

Aboveground Storage Tank (AST) Assessment Report

Date Received
State Use Only

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. #: AOC #574

Facility Name: Charleston Naval Base Complex, BLDG 9, ASTs 9B and 9C

Street Address: South Hobson Avenue

City: North Charleston, 29405-2413 County: Charleston

III CLOSURE INFORMATION

Closure Started: 20 June 1996 Closure Completed: 24 July 1996

Number of ASTs Closed: 2

N/A — Consultant

SPORTENVDETCHASN — 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
NOV 01 1996
Groundwater Assessment and Development Section

V. AST INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
A. Product	9B #2 Fuel Oil	9C #2 Fuel Oil			
B. Capacity	586 gal.	3,700 gal			
C. Age	1939	1939			
D. Construction Material	Steel	Steel			
E. Month/Year of Last Use	1995	Unk.			
F. Spill Prevention Equipment Y/N	N	N			
G. Overfill Prevention Equipment Y/N	N	N			
H. Method of Closure Removed/Filled	R	R			
I. Visible Corrosion or Pitting Y/N	Y	Y			
J. Visible Holes Y/N	N	N			

L. Method of disposal for any ASTs removed (attach disposal manifests).

ASTs 9B and 9C were removed from the site, steam cleaned, and cut up for recycling as scrap metal. See Attachment II.

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

The tanks were empty. No sludge was removed.

N. Were any corrosion, pitting, or holes observed on the AST?

The ASTs were in poor condition. Oil was leaching out of the sides of the tanks. See photographs in Attachment I.

VI. PIPING INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A. Construction Material.....	Steel	Steel				
B. Distance from AST to Dispenser.....	25' (Bldg 9)	25' (Bldg 9)				
C. Number of Dispensers.....	1	1				
D. Type of System P/S.....	P	P				
E. Was Piping Removed Y/N.....	Y	Y				
F. Visible Corrosion or Pitting Y/N.....	N	N				
G. Visible Holes Y/N.....	N	N				
H. Age.....:.....	> 20 yrs.	> 20 yrs.				

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

The piping was sound. No evidence of leakage was found in them.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Building 9 is located inside the Controlled Industrial Area of the Charleston Naval Shipyard. ASTs 9B and 9C provided #2 fuel oil to Building 9's foundry furnaces and torches. This location is designated as Area of Concern (AOC) #574 in the Naval Base Resource Conservation and Recovery Act (RCRA) Facility Assessment. The site also contained a waste oil tank which was removed prior to base closure. See photograph, Attachment I.

The condition of the tanks and the available documentation support the conclusion that the tanks had been leaking for many years. Prior to base closure, Public Works planned to replace ASTs 9B and 9C because of their poor condition.

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.) [*mild, from contaminated soil beneath ASTs]	*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#
See Note 1.						

* = Depth Below the Surrounding Land Surface

Note 1:
No samples were taken of this location per agreement with the Project Team. The site is presently being assessed and worked under the RCRA permit for Naval Base Charleston.

X. SAMPLING METHODOLOGY

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

No samples were taken.

XI. RECEPTORS

		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the AST system? [* Cooper R. 320'] 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 AST 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 AST 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 AST system that could potentially come in contact with the contamination? [* Storm drain, electrical] If yes, indicate the type of utility, distance, and direction on the site map.	*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 and 2
Photographs 1 through 5

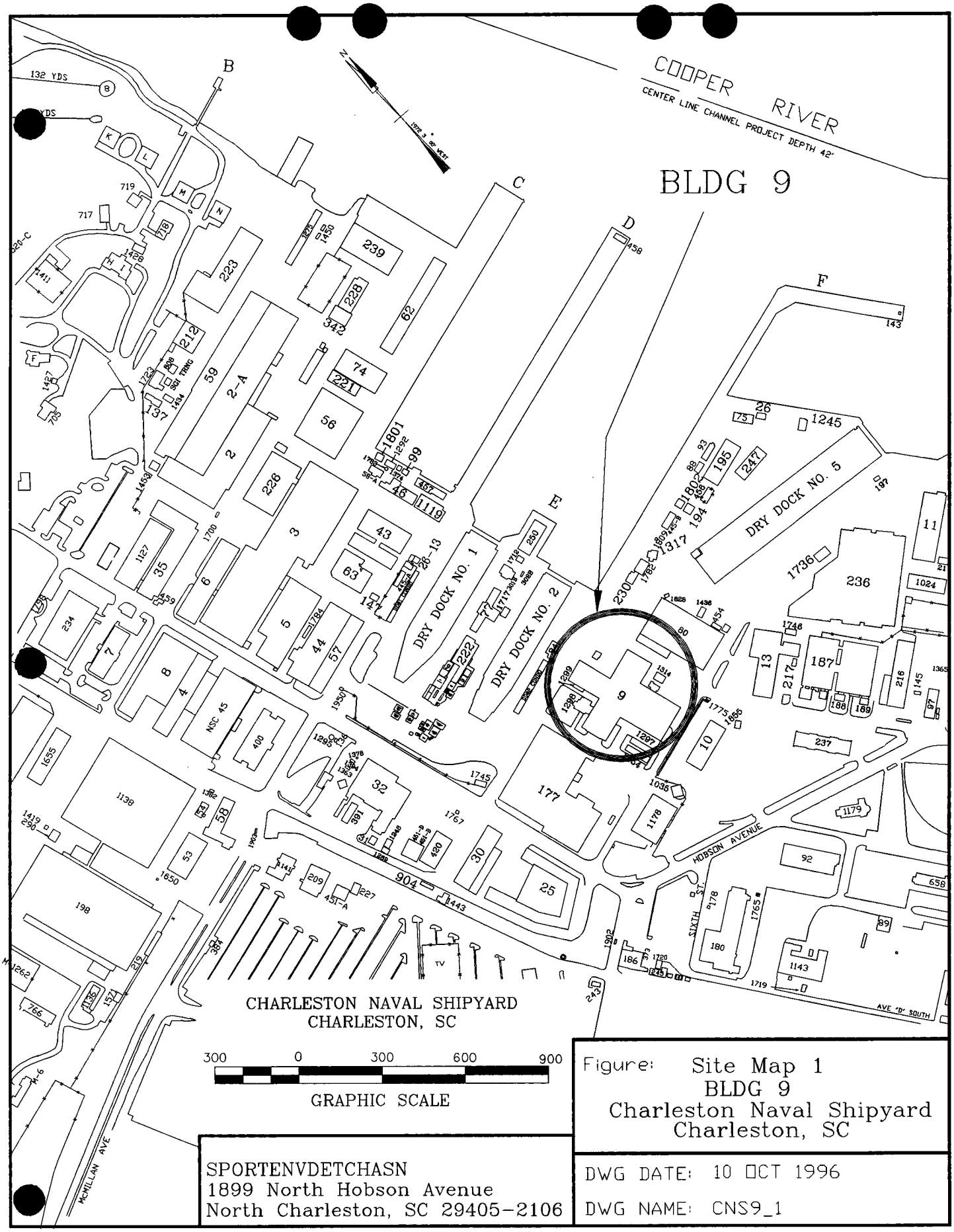
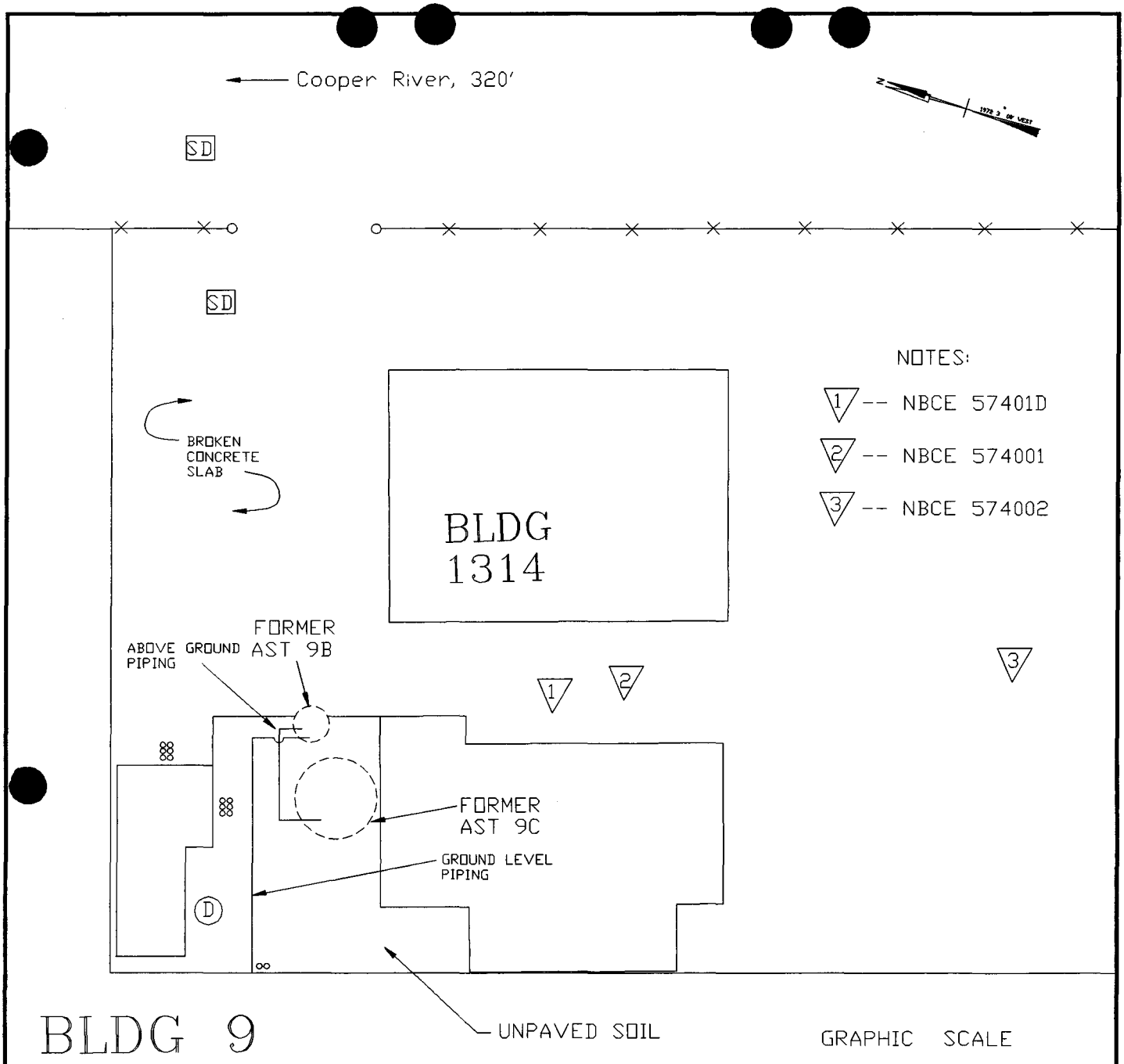


Figure: Site Map 1
BLDG 9
Charleston Naval Shipyard
Charleston, SC

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

DWG DATE: 10 OCT 1996

DWG NAME: CNS9_1



KEY:

D -- DRAIN

∞ -- ELECTRICAL CONDUIT ENTER GROUND

2 -- PERMANENT MONITORING WELL

SD -- STORM DRAIN

Figure: Site Map 2
AST 9B & 9C
Charleston Naval Base
Charleston, SC

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

DWG DATE: 16 OCT 1996

DWG NAME: CNS9_2

ASTs 9B and 9C

Photo 1: Building 9 waste oil tank, AST 9C, and AST 9B from left to right. This photo was taken before the waste oil tank was removed, prior to base closure.

Photo 2: ASTs 9B and 9C, taken prior to base closure.

ASTs 9B and 9C

Photo 3: ASTs 9B and 9C, taken prior to removal.

Photo 4: AST 9B foundation soil staining.

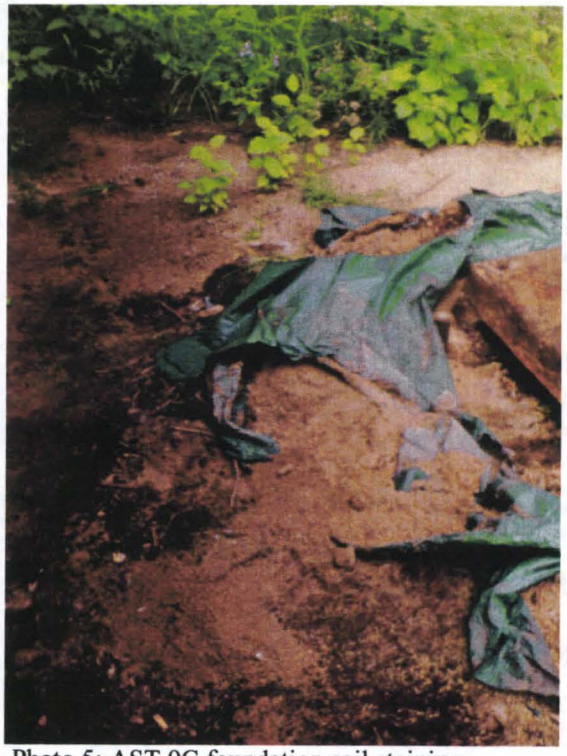


Photo 5: AST 9C foundation soil staining.

Attachment II

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 9B, BLDG 9, Charleston Naval Shipyard, Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK	SIZE (GAL)
#2 Fuel Oil	586 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.

Thomas F. Singer / 10/16/96
(Name) (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 9C, BLDG 9, Charleston Naval Shipyard, Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK	SIZE (GAL)
#2 Fuel Oil	3,700 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.

Thomas F. Bunger / 10/16/96
(Name) (Date)

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201-1708

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 17, 1996
Charleston Naval Base Building # 9 AST 9B/9C (Site Identification # 17684)
Charleston County

Date: December 31, 1996

Dear Mr. Magwood:

The author has completed technical review of the referenced document. As submitted, the report provides a narrative describing tank removal activities at the referenced site. The site has designation Area of Concern (AOC) #574 in the Naval Base Resource Conservation and Recovery Act (RCRA) Facility Assessment program. Environmental assessments to determine the extent and severity of contamination, if any, from potential releases as a result of operation of the referenced storage tank system will be conducted under the guidance of the RCRA program.

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

recycled paper