

N60200.AR.001040
NAS CECIL FIELD, FL
5090.3a

MEMORANDUM AND UNDERGROUND STORAGE TANK ASSESSMENT REPORT FOR
TANK 1823 NAS CECIL FIELD FL
6/13/1997
USN PORTSMOUTH

JUN 13 1997

MEMORANDUM

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

To: Southern Division Naval Facilities Engineering Command
(Code 1842 - Brian Kizer)

Subj: UST ASSESSMENT REPORT FOR UST 1823

Ref: (a) NAS Cecil Field Closure Assessment Guidance Format Document For
Petroleum Storage Tank Removals, dated March 1997

(b) FDEP Pollutant Storage Tank Closure Assessment Requirements

(c) FDEP Quality Assurance Standard Operating Procedures for Petroleum
Storage System Closure Assessments.

Encl: (1) UST Assessment Report for UST 1823

1. Enclosure (1) is the UST Assessment Report for 1823. The UST was an unregulated, 1,000 gallon tank which supplied fuel oil to building 1823 on Naval Air Station, Cecil Field. The removal was completed 18 April 1997. This report documents the tank 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 reference (a) and based on work completed in accordance with References (b) and (c).

for E. R. Dearhart
E. R. Dearhart

SPORTENVDETHASN
SUPSHIP PORTSMOUTH ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE
NORTH CHARLESTON, S.C. 29405-2106
Underground Storage Tank (UST) Assessment Report

I OWNERSHIP OF UST(S)

Agency/Owner: Naval Air Station, Cecil Field DER Facility No. 168507293			
Mailing Address: N.P.W.C., Box 101, Cecil Field Zone, NAS Cecil Field.			
City: Jacksonville	State: FL	Zip Code: 32215-0101	
Area Code: 904	Telephone Number: 778-5620	Contact Person: Lloyd Cruz	

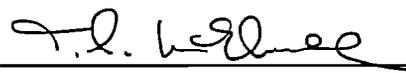
II SITE IDENTIFICATION AND LOCATION

Site I.D. #:	BUILDING 1823		
Facility Name:	Naval Air Station Cecil Field		
Street Address:	Building1823, "A" Avenue		
City:	Jacksonville, 32215-0101	County:	Duval

III CLOSURE INFORMATION

Closure Started: 4/18/97	Closure Completed: 4/18/97
Number of USTs Closed: 1	
N/A	SPORTENVDETHASN
Consultant	UST Removal Contractor

IV. CERTIFICATION (Read and Sign after completing entire submittal)

<small>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.</small>	
T.L. McElwee - Project Engineer	
Name (Type or Print)	
	
Signature	

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						
1,000gal						
unk						
steel						
unk						
5' 6"						
N						
N						
R						
Y						
Y						

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

UST 1823 was removed, drained, cut open at both ends, and cleaned with a steam cleaner. It was then cut up for recycling as scrap metal and delivered to the Cecil Field Recycling Center. (See Attachment III.)

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

Prior to tank removal the residual fuel was pumped out of the tank by contractor. The disposal manifest is included in Attachment III. The oily rinse water was recycled through the oil/water separator at the Transportation Office, Building 80, NAS Cecil Field.

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

The tank had a protective layer of black paint. It initially appeared to be in sound condition with only minor areas of corrosion and pitting. During cleaning however, the high pressure sprayer removed the minor corrosion exposing four small holes (two on each end of the tank). Surface corrosion must have been sufficient to keep holes plugged while tank was in operation since in process and final OVA headspace samples did not reveal contamination in excess of 50 ppm in these areas.

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 Excavation? Y/N
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....

Tank 1	Tank 2	Tank 3	Tank 4
Steel			
33' see note 1			
1 see note 1			
S			
Y See note 2			
Y			
Unk			
Unk			

Note 1: The tank provided fuel oil to Building 1823.

Note 2: The supply and return, TLI and Vent piping from building 1823 to the excavation was flushed and then capped at the building and at the edge of the excavation.

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

The piping had good wall thickness with some corrosion and pitting. The 3/4" steel supply line had three holes 1/8" diameter just above the tank. In process OVA headspace samples under the piping did not detect any contamination. See Site Map 3.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Building 1823 (Armament Building) is located on "A" Avenue at NAS Cecil Field. UST 1823 was a 1,000 gallon tank which provided fuel oil to the boiler of building 1823. The tank measured 4' dia. x 10' 9" long and was located beneath the asphalt parking lot adjacent to the complex. This out of service tank was removed due to base closure.

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>_____</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 on the site map.</p>		N/A	

*Excavated soil was used as backfill. Additional fill dirt was provided by Powerline Sand Inc., 8442 W. Beaver St., Jacksonville, Florida, 32220.

IX. SAMPLING METHODOLOGY

After the removal of UST 1823, an Organic Vapor Analyzer-Flame Ionization Detector (PE PHOTOVAC MicroFid, Serial Number CZE215) was used to screen the soils for petroleum hydrocarbon vapors. OVA headspace samples were taken in each corner and in the center of the excavation at 1' and every two feet thereafter until reaching the concrete ballast pad. In this excavation, the top of the concrete ballast pad was at 5' 6". OVA headspace soil samples were extracted using the backhoe bucket and sampled from the middle of the bucket. No ground water was present in the excavation.

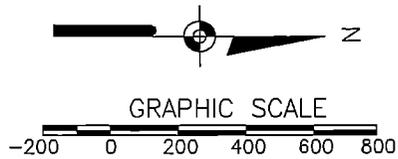
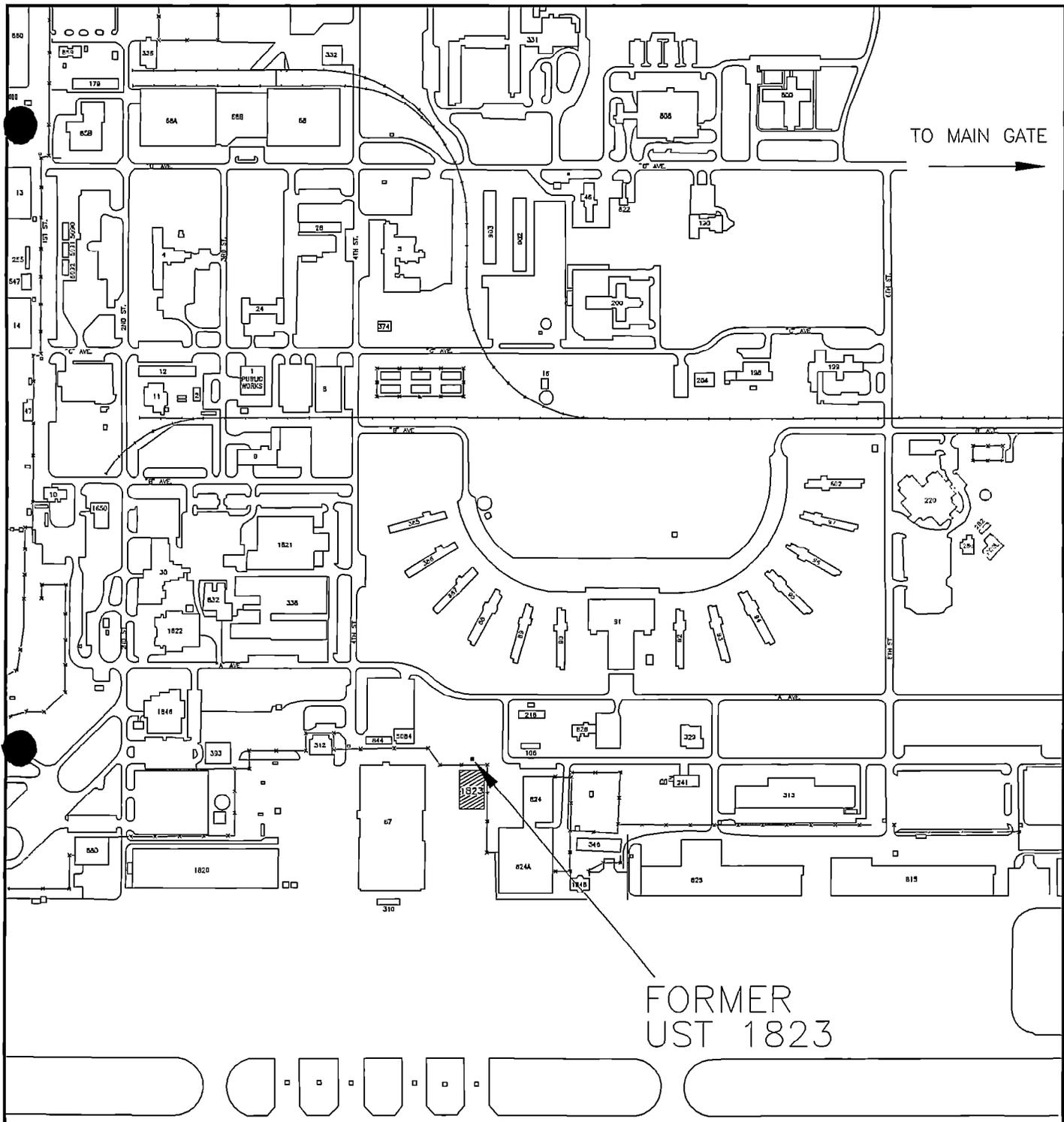
Based on the results of the OVA headspace samples on tank 1823 and the fact that there was no ground water present in the excavation, no temporary wells were installed and no ground water samples taken.

Sampling was performed in accordance with the FDEP Pollutant Storage Tank Closure Assessment Requirements and the FDEP Quality Assurance Standard Operating Procedures for Petroleum Storage System Closure Assessments.

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.

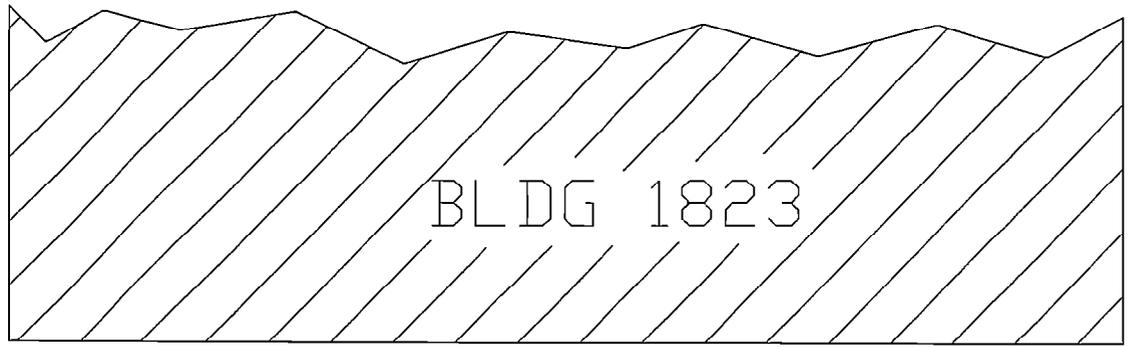
Site Maps 1, 2, 3, and 4
Photographs 1, 2, and 3



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

Site Map 1
 UST 1823
 NAS Cecil Field
 Jacksonville, FL

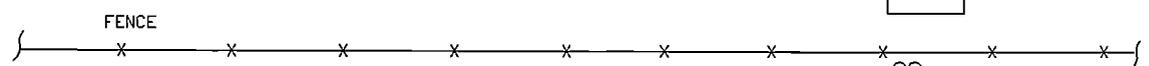
DWG DATE: 15 MAY 97 DWG NAME: CF1823_1



UST VENT



ELECTRICAL TRANSFORMER



FENCE



NATURAL GAS METER

FILL



FORMER UST 1823

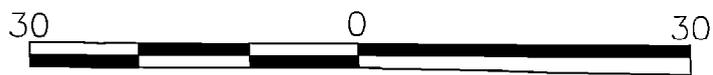
WATER METER



STORM DRAIN



STORM DRAIN



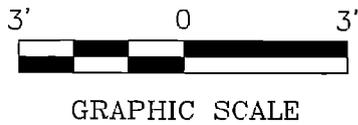
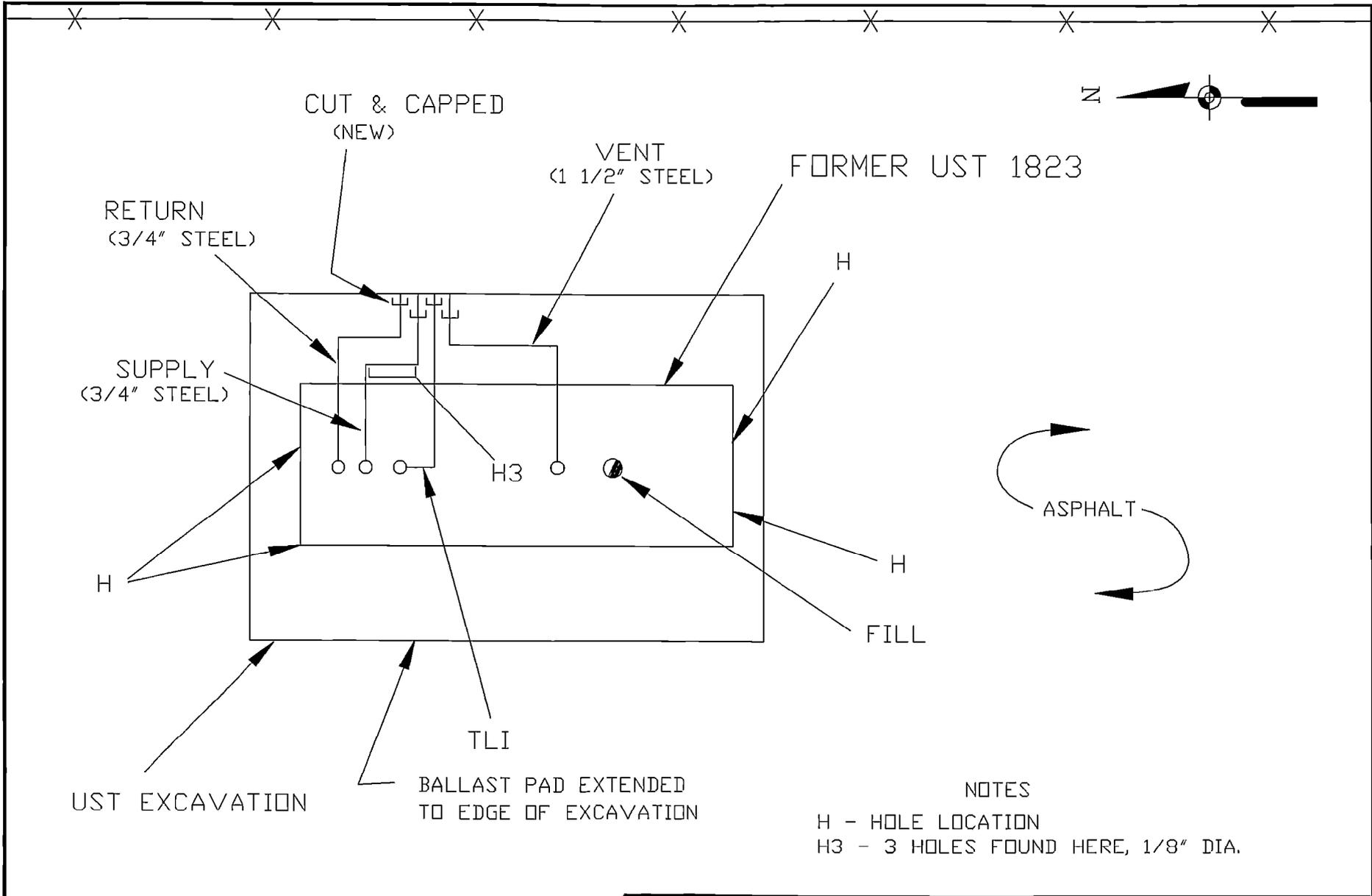
GRAPHIC SCALE

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

Site Map 2
UST 1823
NAS Cecil Field
Jacksonville, FL

DWG DATE: 23 MAY 97

DWG NAME: CF1823_2



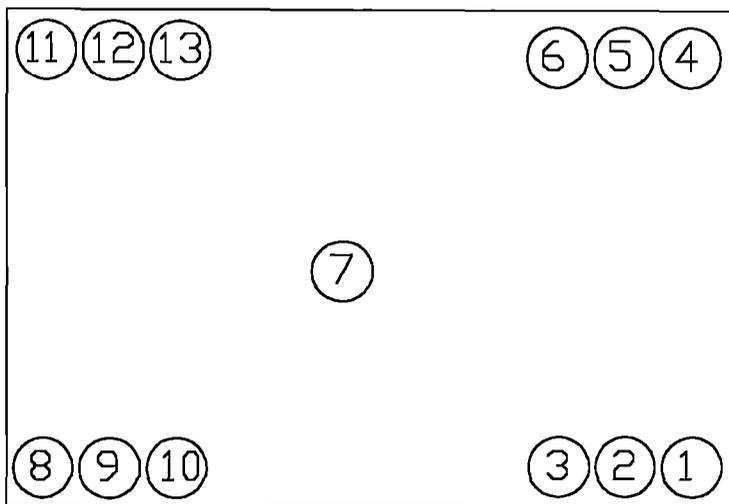
SPORTENVDETHASN
1899 North Hobson Ave.
North Charleston, SC
29405-2106
Ph. (803) 743-6777

Site Map 3
UST 1823
NAS Cecil Field
Jacksonville, FL

DWG DATE: 23 MAY 97 DWG NAME: CF1823_3



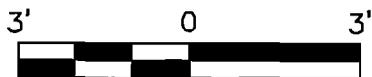
FORMER UST 1823 EXCAVATION



SS #	TIME	DEPTH	READING(ppm)
SS-1	^{4/18/97} 1545	1'	0.6
SS-2	1546	3'	0.3
SS-3	1547	5'	0.0
SS-4	1548	1'	0.0
SS-5	1549	3'	0.0
SS-6	1550	5'	0.0
SS-7	1551	5' 6"	26.0
SS-8	1552	1'	1.3
SS-9	1553	3'	23.8
SS-10	1554	5'	10.7
SS-11	1555	1'	0.6
SS-12	1556	3'	4.0
SS-13	1557	5'	1.6

LEGEND

⑦ - SOIL SAMPLE (SS-#)



GRAPHIC SCALE

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

Site Map 4
 UST 1823
 NAS Cecil Field
 Jacksonville, FL

DWG DATE: 23 MAY 97

DWG NAME: CF1823_4

UST 1823 at NAS Cecil Field

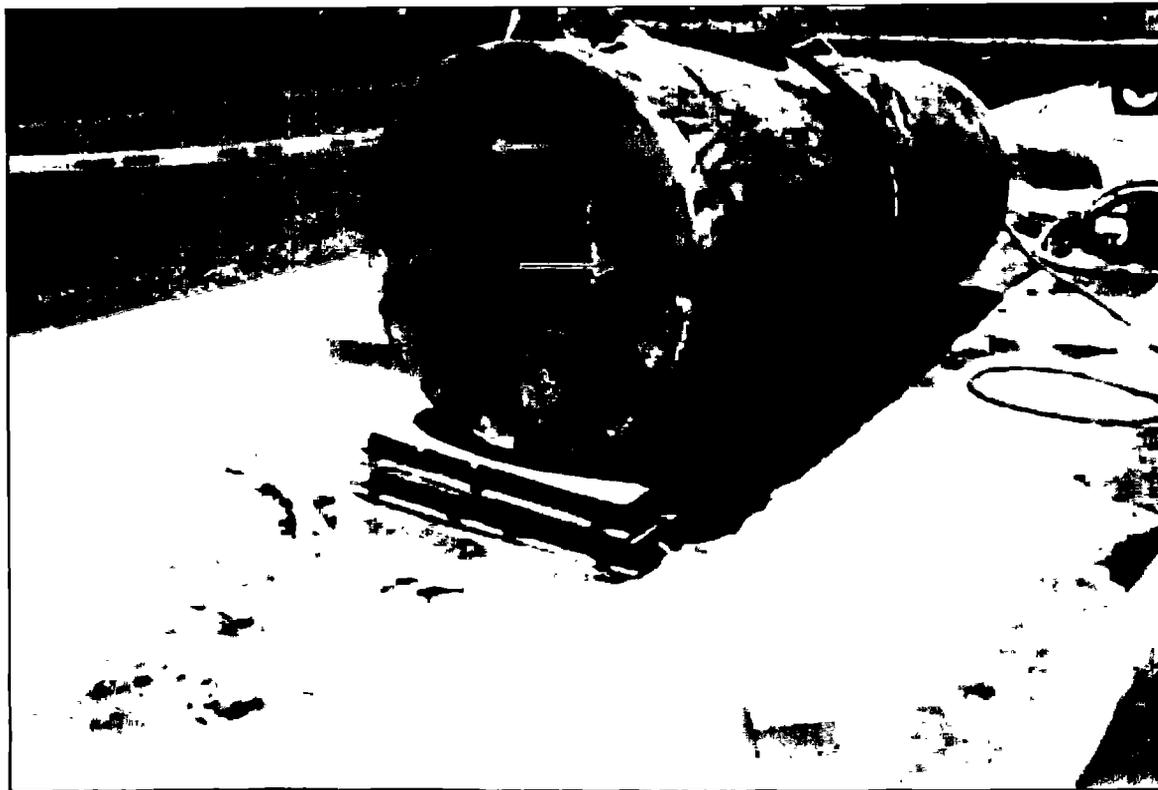


Photo 1: UST 1823 during cutting and cleaning. Arrows indicate hole locations.



Photo 2: UST 1823, opposite end.



Photo 3: UST 1823 piping.

ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a Florida certified laboratory.

OVA headspace soil samples were taken at this site.

Attachment III

Certificate of Disposal (tank)
Disposal Manifest (fuel oil)

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

Building 1823, "A" Avenue, NAS Cecil Field, Jacksonville, FL 32215-0101

DISPOSAL LOCATION

NAS Cecil Field
Recycling Center, Building 805
Jacksonville, FL, 32215-0101

TYPE OF TANK

SIZE (GAL)

Fuel oil

1,000 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.



T. L. McElwee

1 6/13/97

(Date)



Georgia Petroleum, Inc.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. FL 5170022474

Manifest Document No.

2. Page 1 of 1

4-14-97

3. Generator's Name and Mailing Address: NAVAL AIR STATION: CECIL FIELD SFC, Encl NO 4943 JACKSONVILLE, FLA 32215-0106

4. Generator's Phone (904) 728-5622

5. Transporter 1 Company Name

6. US EPA ID Number GAD581222433

Credit

7. Transporter 2 Company Name

8. US EPA ID Number

Paid

9. Designated Facility Name and Site Address: Georgia Petroleum, Inc. 1612 James P. Rogers Circle Valrico, Georgia 31601

10. US EPA ID Number GAD# 901222433

A. Transporter's Phone 702-244-3110

B. Transporter's Phone

C. Facility's Phone 912-244-9110

11. Waste Shipping Name and Description

12. Containers

No. Type

13. Total Quantity

14. Unit Wt/Vol

a. NON HAZ DIRTY DIESEL
b. Non HAZ (Liquids) (off spec
c. Diesel) NOS. OIL (MA 1993)
d.

(APPROX) 17 1500 GAL
(7510)

Additional Descriptions for Materials Listed Above

API 34.3 VIS 32 BSW (2130)
CHLOR 450

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

In the event of an emergency call 912-244-9110 Mon - Fri 8-5 or 912-244-0001 anytime.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: URSULA KLIMAS Signature: Ursula Klimas Month Day Year: 10/1/97

17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: Freddy Norris Signature: Freddy Norris Month Day Year: 10/1/97

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: Month Day Year:

18. Discrepancy Indication Space: Compt # (1) 2500 gal 125 gal free water loss 6% water in 1 layer Compt (2)(3)(4) 50,000 gal loss 1% water

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18

Printed/Typed Name: Gene Goldkuss Signature: Gene Goldkuss Month Day Year: 04/15/97

TRANSPORTER #1



Florida Department of Environmental Regulation

Twin Towers Office Bldg • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(6)
 Form Title Closure Assessment Form
 Effective Date December 16, 1990
 DER Application No. _____

Closure Assessment Form

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to demonstrate that a storage system closure assesment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type
Complete All Applicable Blanks

- Date: 30 May 1997
- DER Facility ID Number: 168507293
- County: Duval
- Facility Name: Building 1823
- Facility Owner: Naval Air Station Cecil Field
- Facility Address: Building 1823, "A" Avenue
- Mailing Address: N.P.W.C., Box 101, Cecil Field Zone, Jacksonville, FL 32215-0101
- Telephone Number: (904) 778-5620
- Facility Operator: Lloyd Cruz
- Are the Storage Tank(s): (Circle one or both) A. Aboveground or B. Underground
- Type of Product(s) Stored: Fuel oil
- Were the Tank(s): (Circle one) A. Replaced B. Removed C. Closed in Place D. Upgraded (aboveground tanks only)
- Number of Tanks Closed: 1
- Age of Tanks: Unknown

Facility Assessment Information

- | Yes | No | Not Applicable | |
|--------------------------|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | 1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | 2. Was a Discharge Reporting Form submitted to the Department?
If yes, When: _____ Where: _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Is the depth to ground water less than 20 feet? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Are monitoring wells present around the storage system?
If yes, specify type: <input type="checkbox"/> Water monitoring <input type="checkbox"/> Vapor monitoring |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Is there free product present in the monitoring wells or within the excavation? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 6. Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline?
Specify sample type: <input type="checkbox"/> Vapor Monitoring wells <input type="checkbox"/> Soil sample(s) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene?
Specify sample type: <input type="checkbox"/> Vapor Monitoring wells <input checked="" type="checkbox"/> Soil sample(s) |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target levels?
(See target levels on reverse side of this form and supply laboratory data sheets) |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | 10. Are any potable wells located within 1/4 of a mile radius of the facility? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | 11. Is there a surface water body within 1/4 mile radius of the site? If yes, indicate distance: _____ |

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locations, and dispenser locations must accompany this form.
13. If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Method 610 must be performed on the ground water samples obtained.
14. Amount of soils removed and receipt of proper disposal.
15. If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitted to the Department within one working day.
16. A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered program office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

 Signature of Owner

 Date

T. L. LeQuone
 Signature of Person Performing Assessment

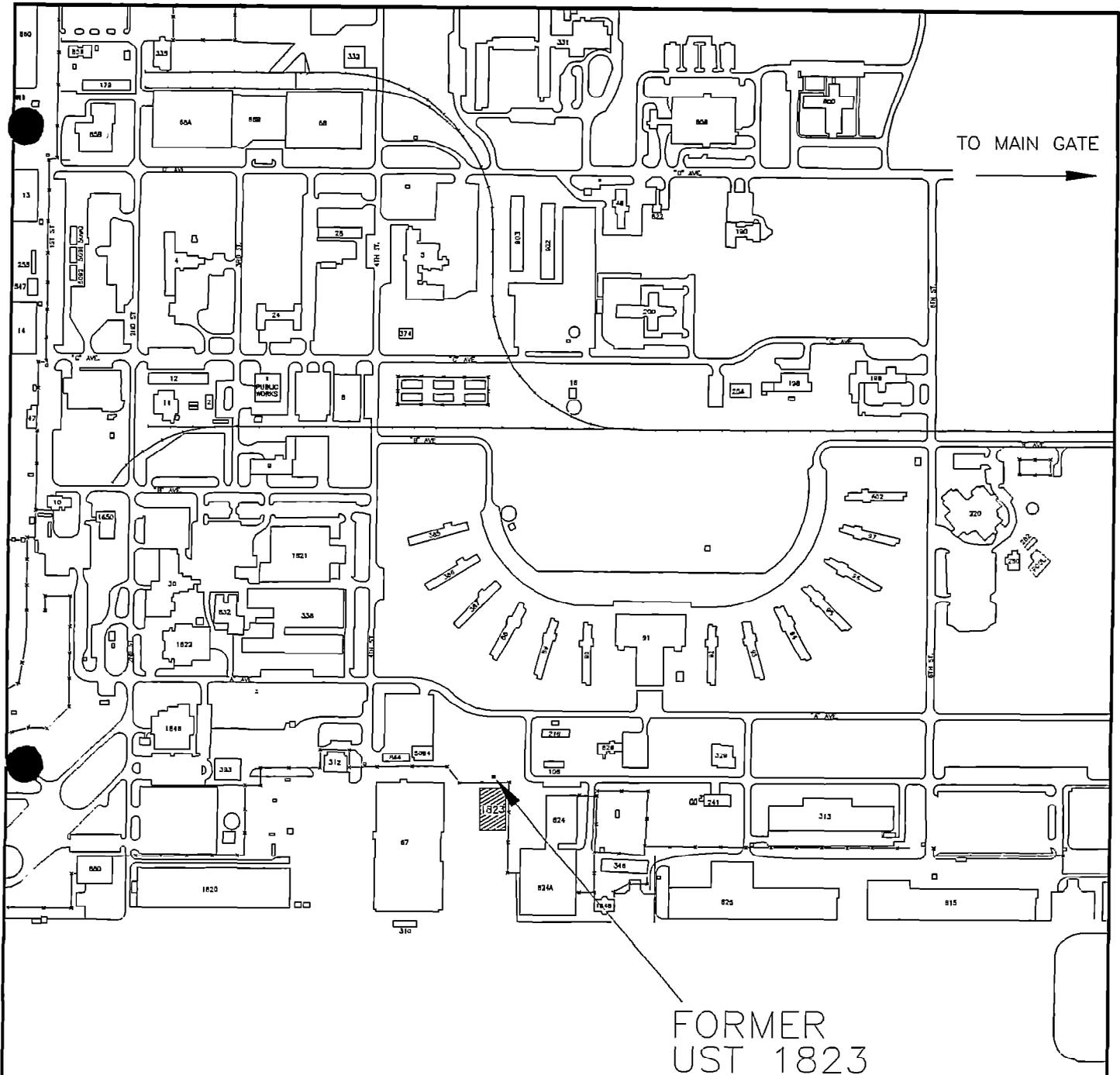
6/13/97
 Date

Environmental Specialist
 Title of Person Performing Assessment

State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

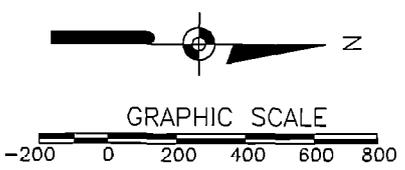
State ground water target levels are as follows:

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. For gasoline (EPA Method 602): <ol style="list-style-type: none"> a. Benzene 1 ug/l b. Total VOA 50 ug/l <ul style="list-style-type: none"> - Benzene - Toluene - Total Xylenes - Ethylbenzene c. Methyl Test-Butyl Ether (MTBE) 50 ug/l | <ol style="list-style-type: none"> 2. For kerosene/diesel (EPA Method 610): <ol style="list-style-type: none"> a. Polynuclear Aromatic Hydrocarbons (PAHS)
 (Best achievable detection limit, 10 ug/l maximum) |
|--|---|



TO MAIN GATE

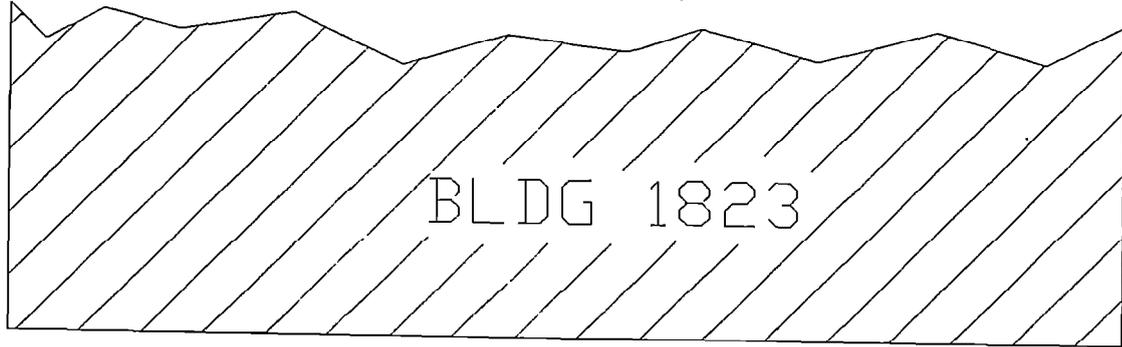
FORMER
UST 1823



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

Site Map 1
UST 1823
NAS Cecil Field
Jacksonville, FL

DWG DATE: 15 MAY 97 DWG NAME: CF1823_1

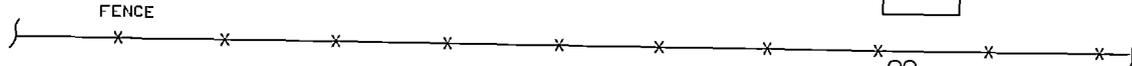


FIREMAIN

UST VENT



ELECTRICAL TRANSFORMER



FENCE

FILL



NATURAL GAS METER

WATER METER



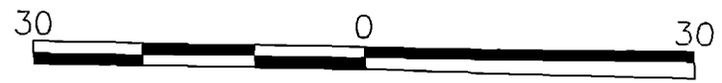
FORMER UST 1823



STORM DRAIN



STORM DRAIN



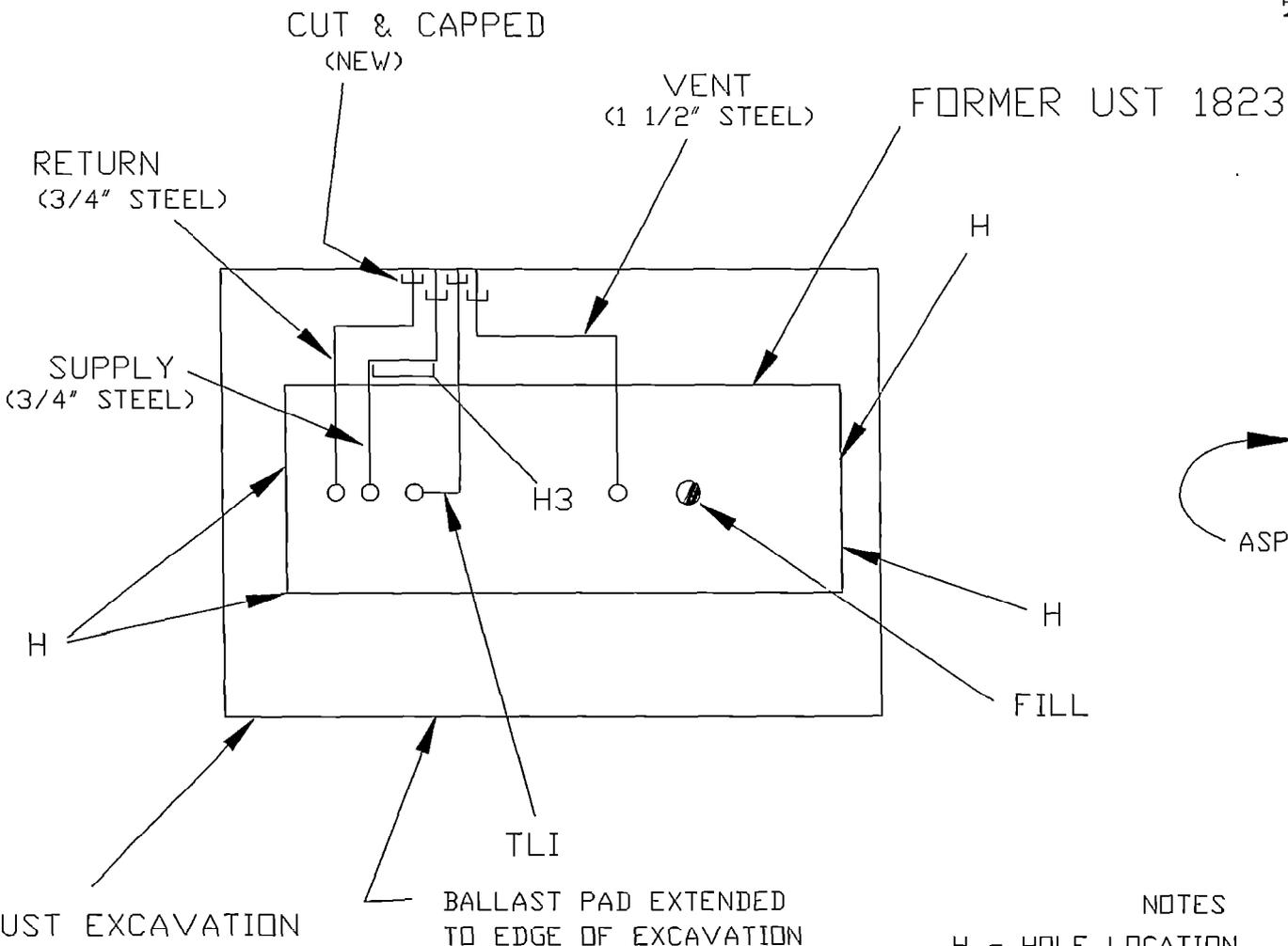
GRAPHIC SCALE

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

Site Map 2
UST 1823
NAS Cecil Field
Jacksonville, FL

DWG DATE: 23 MAY 97

DWG NAME: CF1823_2

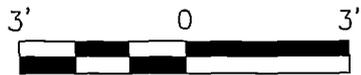


UST EXCAVATION

BALLAST PAD EXTENDED
TO EDGE OF EXCAVATION

NOTES

H - HOLE LOCATION
H3 - 3 HOLES FOUND HERE, 1/8" DIA.



GRAPHIC SCALE

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

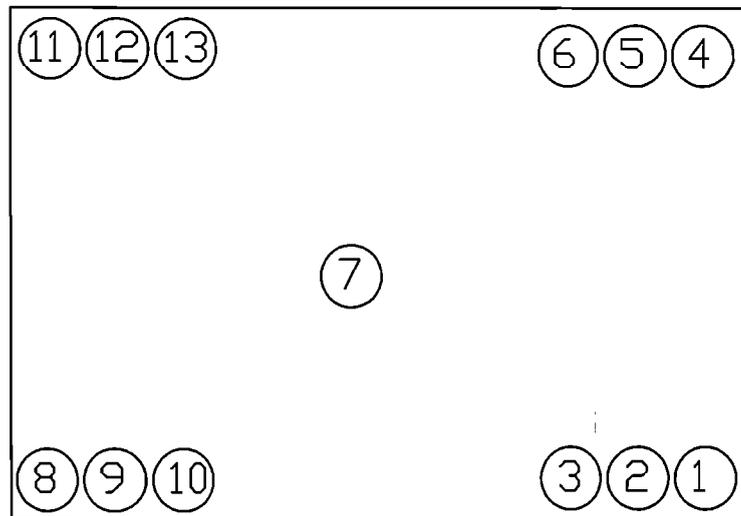
Site Map 3
UST 1823
NAS Cecil Field
Jacksonville, FL

DWG DATE: 23 MAY 97

DWG NAME: CF1823_3



FORMER UST 1823 EXCAVATION



SS #	TIME	DEPTH	READING(ppm)
SS-1	^{4/18/97} 1545	1'	0.6
SS-2	1546	3'	0.3
SS-3	1547	5'	0.0
SS-4	1548	1'	0.0
SS-5	1549	3'	0.0
SS-6	1550	5'	0.0
SS-7	1551	5' 6"	26.0
SS-8	1552	1'	1.3
SS-9	1553	3'	23.8
SS-10	1554	5'	10.7
SS-11	1555	1'	0.6
SS-12	1556	3'	4.0
SS-13	1557	5'	1.6

LEGEND

⑦ - SOIL SAMPLE (SS-#)



GRAPHIC SCALE

NOTE:

All excavated soil was used as backfill. Additional fill dirt was provided by Powerline Sand Inc., 8442 W. Beaver St., Jacksonville, Florida 32220

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

Site Map 4
UST 1823
NAS Cecil Field
Jacksonville, FL

DWG DATE: 23 MAY 97

DWG NAME: CF1823_4