

N60200.AR.001402  
NAS CECIL FIELD, FL  
5090.3a

CONFIRMATORY SAMPLING REPORT FOR BUILDING 1846 TANK 1846-OW BASE  
REALIGNMENT AND CLOSURE UNDERGROUND STORAGE TANK AND ABOVEGROUND  
STORAGE TANK GREY SITES NAS CECIL FIELD FL  
9/1/1998  
HARDING LAWSON ASSOCIATES

**CONFIRMATORY SAMPLING REPORT**  
**BUILDING 1846, TANK 1846-OW**  
**BASE REALIGNMENT AND CLOSURE**  
**UNDERGROUND STORAGE TANK AND**  
**ABOVEGROUND STORAGE TANK GREY SITES**  
  
**NAVAL AIR STATION CECIL FIELD**  
**JACKSONVILLE, FLORIDA**

**Unit Identification Code: N60200**

**Contract No.: N62467-89-D-0317/090**

**Prepared by:**

**Harding Lawson Associates**  
**2590 Executive Center Circle, East**  
**Tallahassee, Florida 32301**

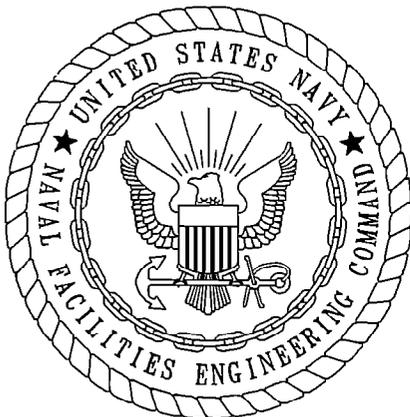
**Prepared for:**

**Department of the Navy, Southern Division**  
**Naval Facilities Engineering Command**  
**2155 Eagle Drive**  
**North Charleston, South Carolina 29418**

**Bryan Kizer, Code 1842, Engineer-in-Charge**

**September 1998**

**Revision 0.0**



CERTIFICATION OF TECHNICAL  
DATA CONFORMITY (MAY 1987)

The Contractor, Harding Lawson Associates, hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/090 are complete and accurate and comply with all requirements of this contract.

DATE: September 3, 1998

NAME AND TITLE OF CERTIFYING OFFICIAL: Rao Angara  
Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL: Eric A. Blomberg, P.G.  
Project Technical Lead

(DFAR 252.227-7036)

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GLOSSARY

FDEP Florida Department of Environmental Protection  
KAG Kerosene Analytical Group  
UST underground storage tank

## 1.0 INTRODUCTION

Harding Lawson Associates, under contract to the Southern Division, Naval Facilities Engineering Command, has completed the confirmatory sampling for Tank 1846-OW at Naval Air Station Cecil Field in Jacksonville, Florida. This report summarizes the related field operations, results, conclusions, and recommendations of the confirmatory sampling.

Tank 1846-OW was a used-oil underground storage tank (UST) located at Building 1846, which is the F-18 Simulator Building (Figure 1). The UST had a 200-gallon capacity and was used to collect used oil from an oil-water separator located at the northeast corner of Building 1846. It is not known when the tank was installed.

Tank 1846-OW was removed by Supship Portsmouth Environmental Detachment on April 19, 1997. No contaminated soil was encountered during the tank removal. No monitoring well was installed during the closure assessment. A closure assessment report was prepared for tank 1846-OW and submitted to the Florida Department of Environmental Protection (FDEP) (Environmental Detachment Charleston, 1997). The Closure Assessment Report is presented in Appendix A. After review of the Closure Assessment Report, it was recommended that a monitoring well be installed and the groundwater be sampled.

## 2.0 FIELD INVESTIGATION

The confirmatory sampling for Tank 1846-OW was initiated in February 1998 and included

- the installation of one monitoring well, and
- the collection and analysis of one groundwater sample.

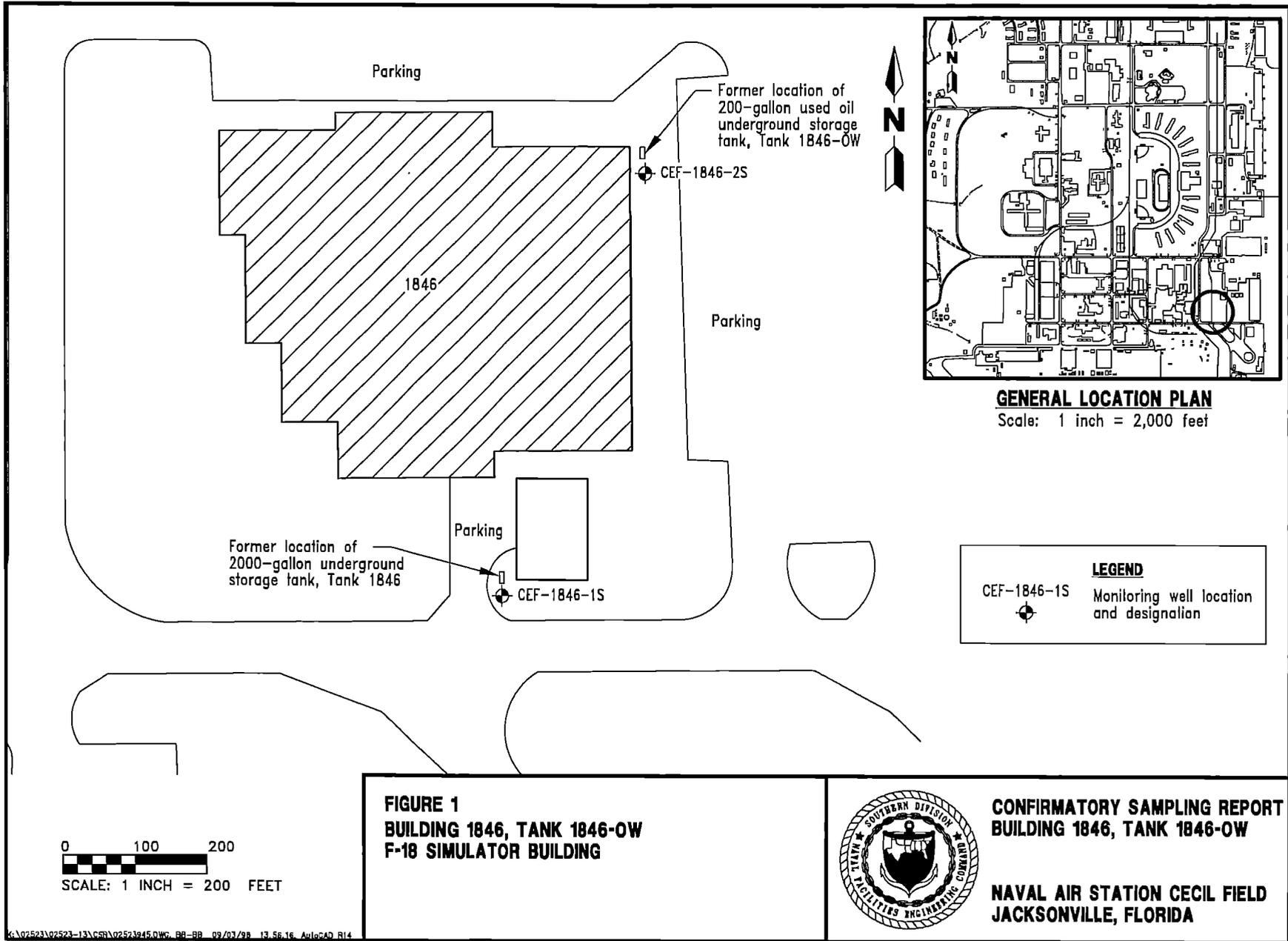
The monitoring well, CEF-1846-2S, was installed at the former location of Tank 1846-OW. One groundwater sample was collected from the well and analyzed for Kerosene Analytical Group (KAG) parameters. A general site plan showing the location of the monitoring well is presented on Figure 1. The monitoring well installation detail is presented in Appendix B.

## 3.0 SCREENING AND ANALYTICAL RESULTS

No contaminants were detected in the KAG groundwater samples above FDEP cleanup target levels as specified in Chapter 62-770, Florida Administrative Code. KAG groundwater sample results are presented in Appendix C.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

As shown in the Closure Assessment Report, no excessively contaminated soil was detected during tank removal.



No contaminants were detected in the KAG groundwater sample collected from monitoring well CEF-1846-2S.

Therefore, it is recommended that no further action take place at the Tank 1846-OW site.

## REFERENCES

Environmental Detachment Charleston. 1997. *Closure Report for Underground Storage Tank 1846-OW, Naval Air Station Cecil Field, Jacksonville, Florida.* (May).

**APPENDIX A**  
**CLOSURE ASSESSMENT REPORT**

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:	778-5610	Contact Person:	Lloyd Cruz

**II SITE IDENTIFICATION AND LOCATION**

Site I.D. #:	BUILDING 1846				
Facility Name:	Naval Air Station Cecil Field				
Street Address:	Building 1846, "A" Avenue				
City:	Jacksonville, 32215-0101	County:	Duval		

**III CLOSURE INFORMATION**

Closure Started: 4/19/97	Closure Completed: 4/20/97
Number of USTs Closed: 2	
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.....

1846-1	1846-2	Tank 3	Tank 4	Tank 5
Fuel Oil	Waste Oil/Water			
2,000 gal	200 gal			
Unk	Unk			
Steel	Fiberglass coated steel			
Unk	Unk			
9'	9'			
N	N			
N	N			
R	R			
Y	N			
N	N			

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

USTs 1846-1 and 1846-2 were removed, drained, cut open at both ends, and cleaned with a steam cleaner. They were then cut up for recycling as scrap metal 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 removing UST 1846-1, any residual product was pumped out by contractor. The Disposal Manifest for the residual product is included in Attachment III.

UST 1846-2, a waste oil tank, was filled with water. This and any oily rinse water from cleaning the tanks 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

UST 1846-1, a fuel oil tank, had a black painted exterior. It was in very good condition with only minor corrosion. UST 1846-2 was a fiberglass-coated, steel waste oil tank which was in excellent condition and had no corrosion, pitting, or holes.

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

1846-1	1846-2	Tank 3	Tank 4
Cpr. Steel, & PVC	Steel		
8' See note 1	9' See note 2		
1 See note 1	1 See note 2		
S	N/A See note 2		
Y	Y		
Y	Y		
N	N		
Unk	Unk		

Note 1: UST 1846-1 provided heating fuel oil to Building 1846.

Note 2: UST 1846-2 was a gravity fed waste oil tank.

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

The piping for both tanks had minimal corrosion and was in good condition overall.

## VII. BRIEF SITE DESCRIPTION AND HISTORY

Building 1846 is located on "A" Avenue at NAS Cecil Field, Jacksonville, FL. UST 1846-1 was located on the south side of building 1846 and provided heating fuel to a boiler via a utility building. UST 1846-2 was a waste oil collection tank for an oil-water separator that was located at the northeast corner of building 1846. The oil-water separator was fed by a cooling tower and Building 1846 roof drains. This would explain the large amounts of water in this tank verses oil.

## VIII. SITE CONDITIONS

Yes No Unk

		Yes	No	Unk
A.	<p>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	
B.	<p>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	
C.	<p>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	
D.	<p>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	
E.	<p>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**

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

After the removal of UST 1846-1, 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. The top of UST 1846-1's ballast pad was at 9 feet below Ground Surface Level. 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.

After the removal of UST 1846-2, the top of the ballast pad was located at 9 feet below GSL. Per paragraph B.3 of FDEP's Storage Tank Closure Assessment Requirements and Section VI of FDEP's Quality Assurance Standard Operating Procedures for Petroleum Storage System Closure Assessments, no OVA headspace samples were taken. However, a visual inspection of the excavation, tank condition and the removed soil was performed. The tank was in excellent condition and there was no evidence of a discharge or spill in the excavation or in the removed soil. No ground water was present in the excavation.

Based on the results of the OVA headspace samples on tank 1846-1 and the above observations on tank 1846-2, no temporary wells were installed and no ground water samples taken.

UST piping soil samples were taken two feet under the piping at the mechanical connections or at the center of the piping run. 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**

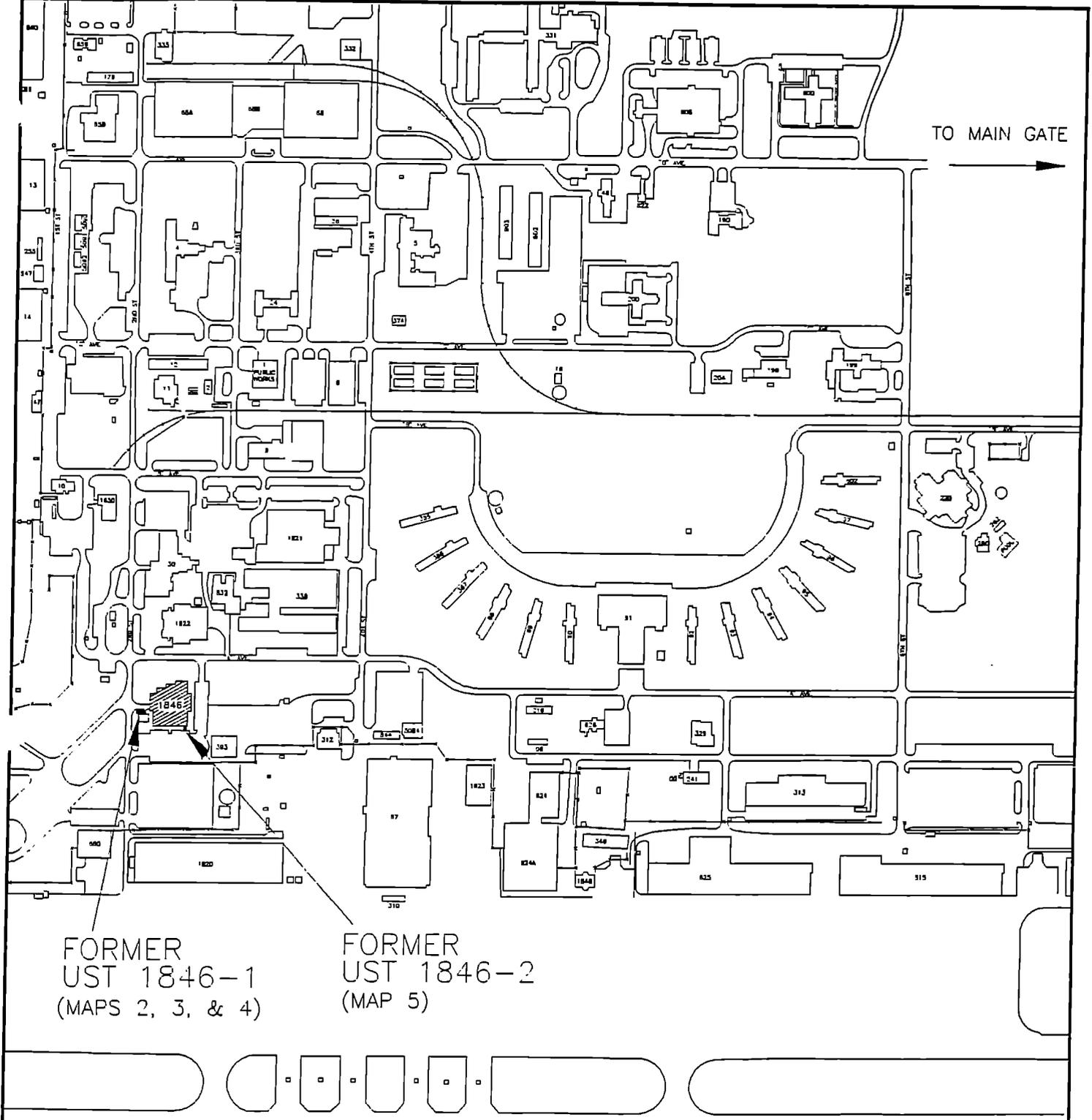
UST 1846-1 - maps 1, 2, 3, and 4

UST 1846-2 - map 5

**Photographs**

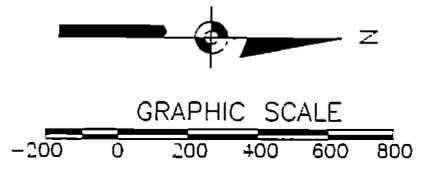
UST 1846-1 - photos 1 and 2

UST 1846-2 - photos 3 and 4



FORMER  
UST 1846-1  
(MAPS 2, 3, & 4)

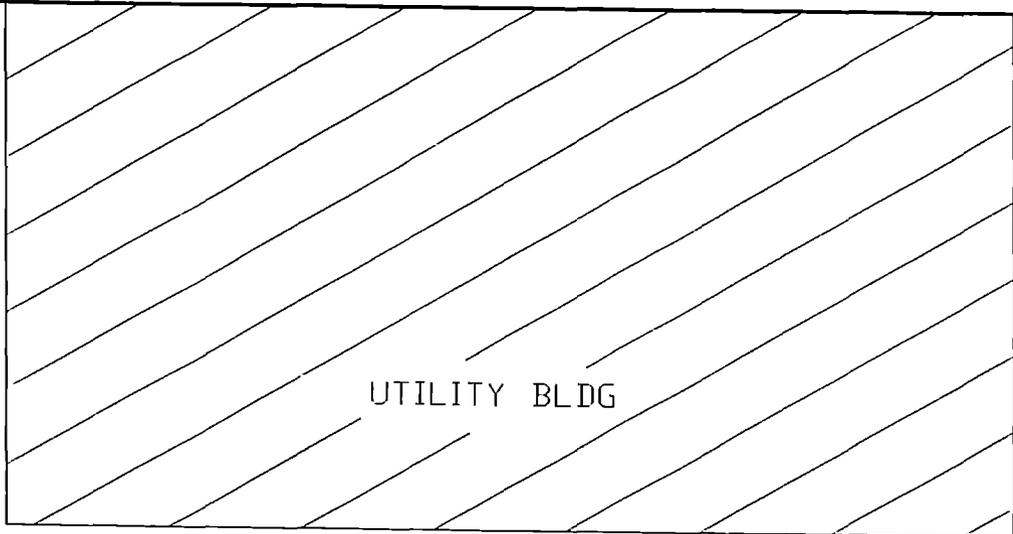
FORMER  
UST 1846-2  
(MAP 5)



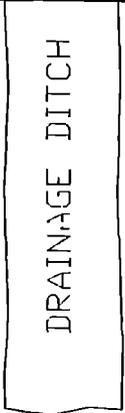
SPORTENVDETHASN  
1899 North Hobson Ave.  
North Charleston, SC 29405-2106  
Ph. (803) 743-6777

Site Map 1  
USTs 1846-1 and 1846-2  
NAS Cecil Field  
Jacksonville, FL

DWG DATE: 15 MAY 97 | DWG NAME: CF1846\_1



UTILITY BLDG

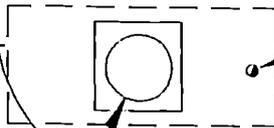


DRAINAGE DITCH

• VENT

GRASS

FORMER UST 1846-1



FILL

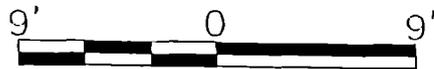
MANWAY

SECOND STREET

ASPHALT DRIVE

GRASS

BLDG 1846



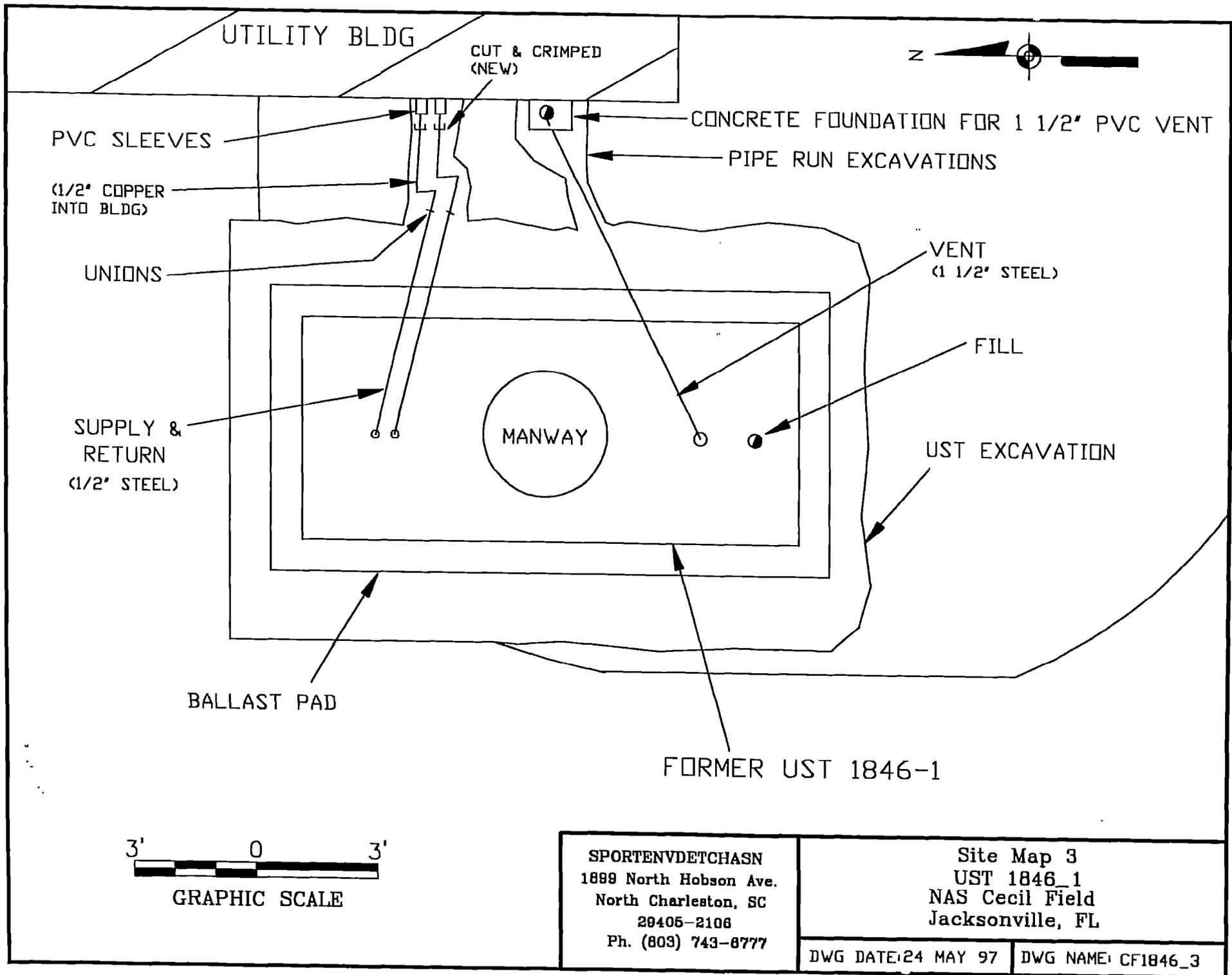
GRAPHIC SCALE

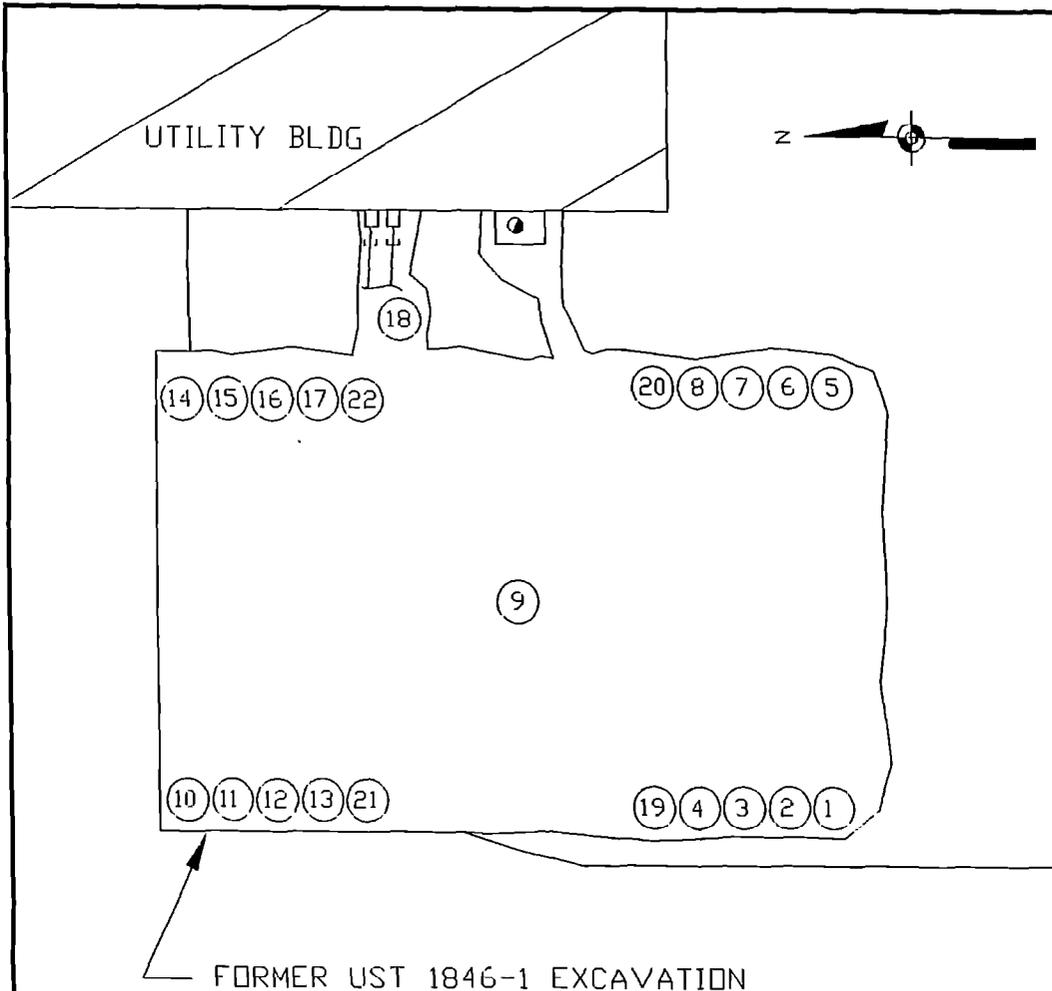
SPORTENVDETCHASN  
1899 North Hobson Ave.  
North Charleston, SC  
29405-2106  
Ph (803) 743-6777

Site Map 2  
UST 1846\_1  
NAS Cecil Field  
Jacksonville, FL

DWG DATE: 24 MAY 97

DWG NAME: CF1846\_2

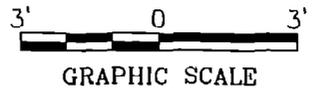




SS #	TIME	DEPTH	READING(ppm)
SS-1	<sup>4/19/97</sup> 1900	1'	0.0
SS-2	1901	3'	0.0
SS-3	1902	5'	0.0
SS-4	1903	7'	0.0
SS-5	1904	1'	0.0
SS-6	1905	3'	0.0
SS-7	1906	5'	0.0
SS-8	1907	7'	0.0
SS-9	1908	9'	0.0
SS-10	1912	1'	0.0
SS-11	1913	3'	0.0
SS-12	1914	5'	0.0
SS-13	1915	7'	0.0
SS-14	1918	1'	0.0
SS-15	1919	3'	0.0
SS-16	1920	5'	0.0
SS-17	1921	7'	0.0
SS-18	1915	4'	11.0
SS-19	1909	9'	0.0
SS-20	1910	9'	0.0
SS-21	1916	9'	0.0
SS-22	1922	9'	0.0

LEGEND

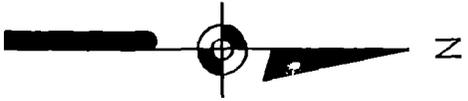
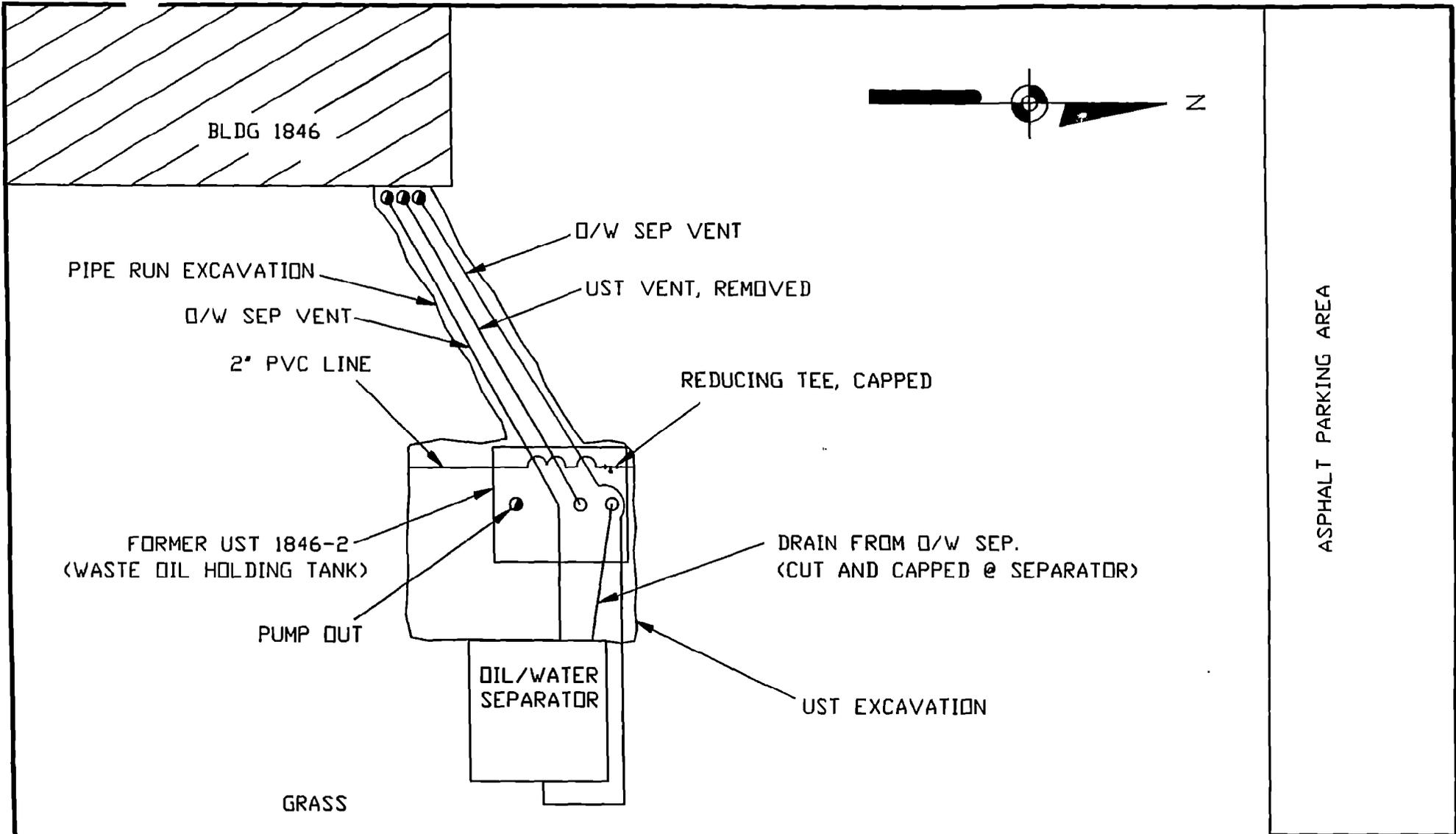
⑨ - SOIL SAMPLE (SS-#)



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

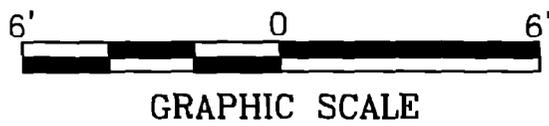
Site Map 4  
 UST CF1846\_1  
 NAS Cecil Field  
 Jacksonville, FL

DWG DATE: 27 MAY 97    DWG NAME: CF1846\_4



ASPHALT PARKING AREA

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



**SPORTENVDETHASN**  
 1899 North Hobson Ave.  
 North Charleston, SC  
 29405-2108  
 Ph. (803) 743-8777

Site Map 5  
 UST 1846-2  
 NAS Cecil Field  
 Jacksonville, FL

DWG DATE: 27 MAY 97 | DWG NAME: CF1846\_5

## USTs 1846-1 and 1846-2 at NAS Cecil Field

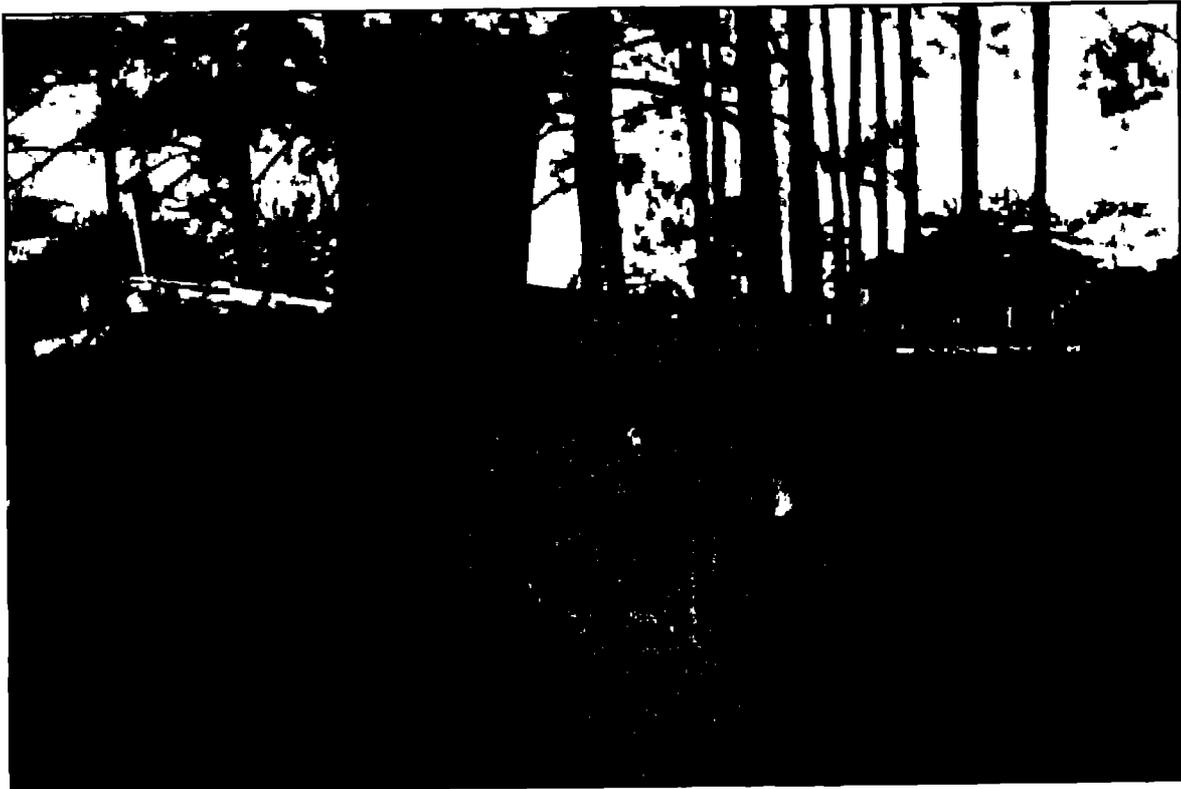


Photo 1: UST 1846-1 after removal from the excavation

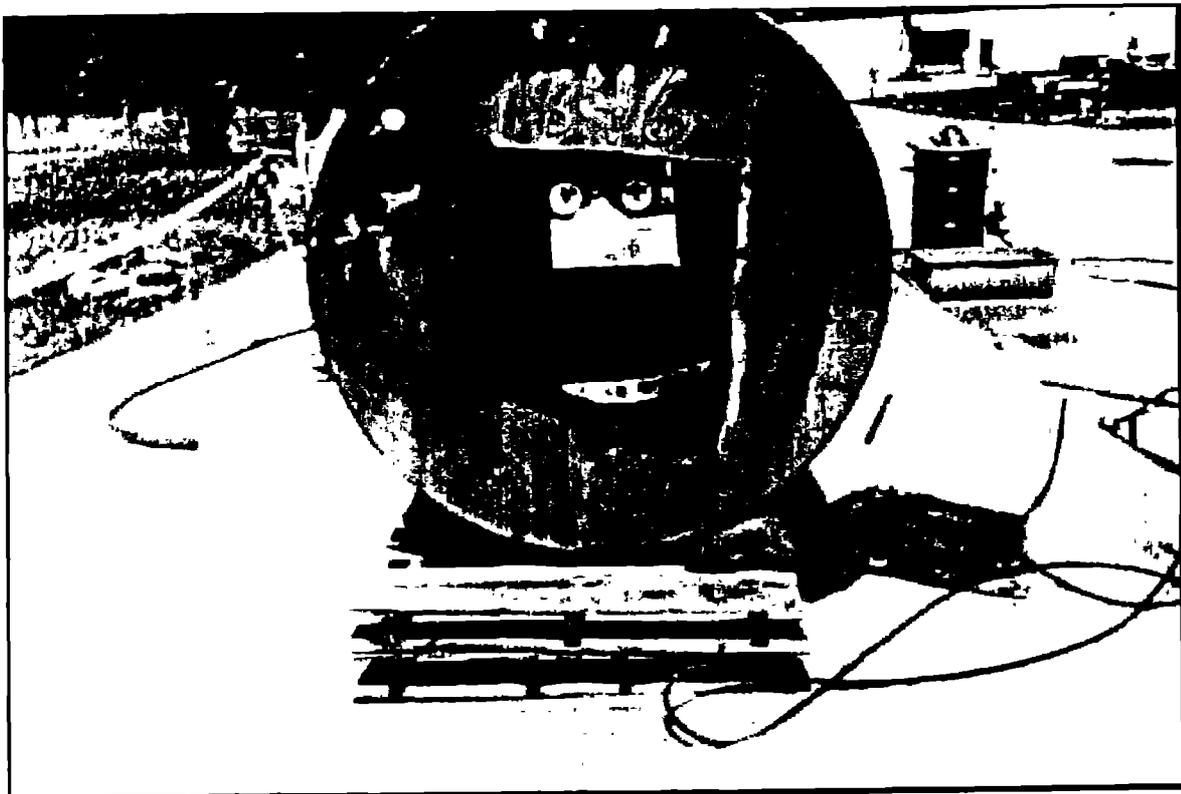


Photo 2: UST 1846-1 during cutting and cleaning.

**USTs 1846-1 and 1846-2 at NAS Cecil Field**



**Photo 3: UST 1846-2 after removal from excavation.**



**Photo 4: UST 1846-2 after cutting and cleaning.**

**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 samples were taken of UST 1846-1's site.

No OVA headspace samples were taken of UST 1846-2's site since it was a waste oil tank.

# 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

UST 1846-1; Building 1846, "A" Avenue, NAS Cecil Field, Jacksonville, FL 32215-0101

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## DISPOSAL LOCATION

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

### TYPE OF TANK

Fuel oil

### SIZE (GAL)

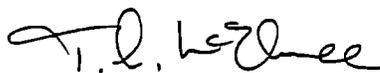
2,000 gal.

## 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 6/5/97

(Date)

# 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

UST 1846-2; Building 1846, "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

Waste oil

### SIZE (GAL)

200 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

T. L. McElwee

6/5/97

(Date)



Georgia Petroleum, Inc.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. F7.517002247.4

Manifest Document No.

2. Page 1 of 1 4-14-97

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

4. Generator's Phone (904) 728-7220

5. Transporter 1 Company Name: GEORGIA PETROLEUM d. US EPA ID Number: GA.D.581222423

Credit

7. Transporter 2 Company Name: d. US EPA ID Number: PAID

9. Designated Facility Name and Site Address: Georgia Petroleum, Inc. 1612 James P. Rogers Circle Valrico, Georgia 31601 e. 10. US EPA ID Number: GAD# 981222433

A. Transporter's Phone: 70-244-7110 B. Transporter's Phone: C. Facility's Phone: 912-244-9100

Table with 4 columns: Waste Shipping Name and Description, 12. Containers No., 13. Total Quantity, 14. L, 15. W, 16. Vol. Rows include: NON HAZ DIRTY DIESEL (APPROX 7500 GAL), NON HAZ (Liquids) (OFF SPEC DIESEL) NOS. OIL (MAY 1993) (7510)

J. Additional Descriptions for Materials Listed Above: API 34.3 VIS 32 ECW (<1%) CHLOR <50

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: In the event of an emergency call 012-244-9110 Mon - Fri 8-5 or 912-244-9601 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: 10/4/97

17. Transporter 1 Acknowledgement of Receipt of Materials: Printed/Typed Name: Freddy Norris Signature: Freddy Norris Month Day Year: 10/4/97

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

19. 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 19.

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

TRANSPORTER #1



# 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 assessment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Inclusive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type  
Complete All Applicable Blanks

- Date: 3 June 1997
- DER Facility ID Number: 168507293      3. Count: Duval
- Facility Name: Building 1846
- Facility Owner: Naval Air Station Cecil Field
- Facility Address: Building 1846, "A" Avenue
- Mailing Address: N.P.W.C., Box 101, Cecil Field Zone, Jacksonville, FL 32215-0101
- Telephone Number: (904) 778-5620      9. 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 and waste oil
- Were the Tank(s): (Circle one)    A. Replaced    B. Removed    C. Closed in Place    D. Upgraded (aboveground tanks only)  
Unknown
- Number of Tanks Closed: 2      14. Age of Tanks: \_\_\_\_\_

## 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?<br>If yes, When: _____ Where: _____  |
| <input checked="" type="checkbox"/> | <input 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?<br>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?<br>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?<br>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?<br>(See target levels on reverse side of this form and supply laboratory data sheets)                                 |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input 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"/> | <input 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"/> | <input 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

*T. L. Legrand*  
\_\_\_\_\_  
Signature of Person Performing Assessment

Environmental Specialist  
\_\_\_\_\_  
Title of Person Performing Assessment

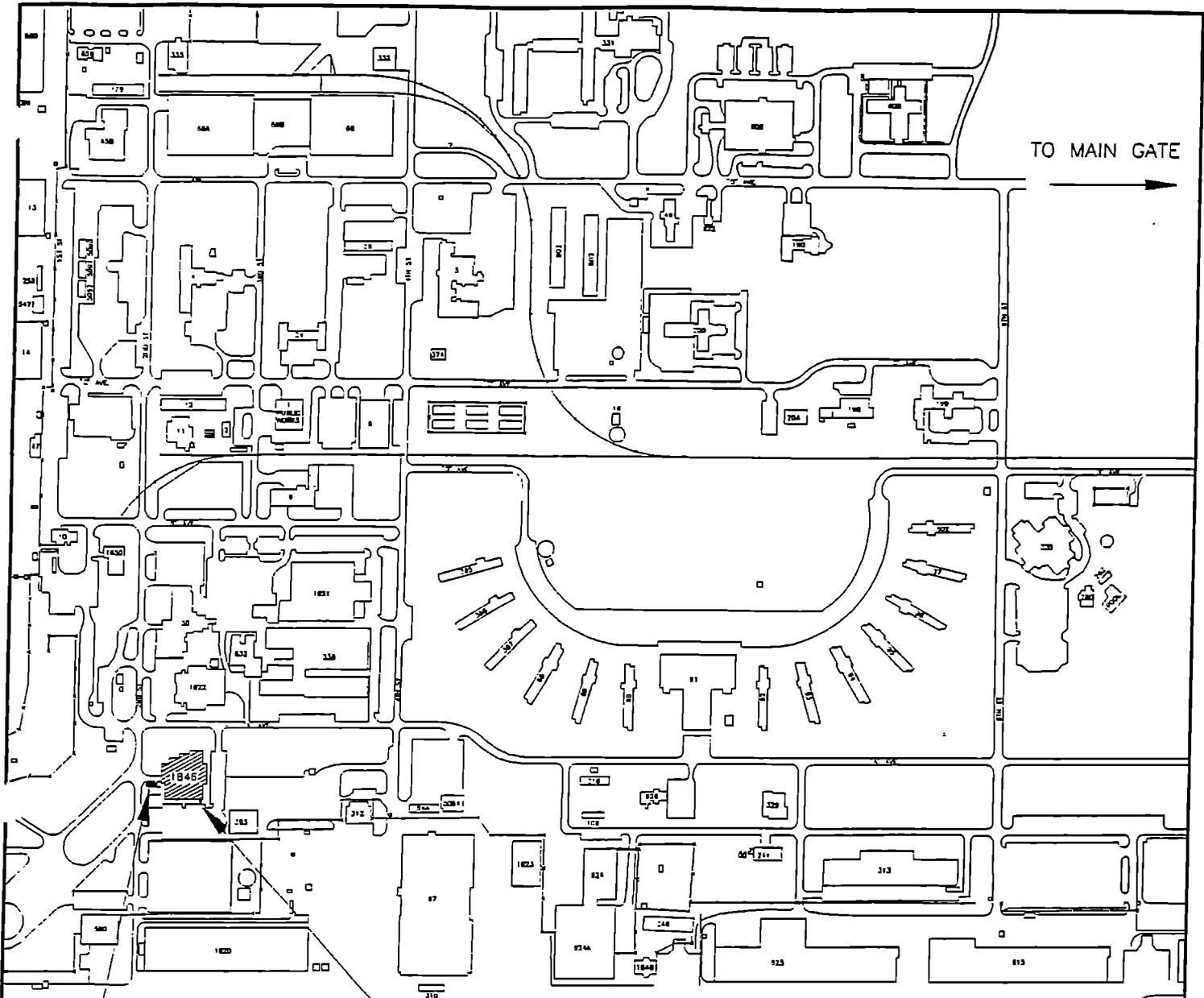
\_\_\_\_\_  
Date

*60/13/97*  
\_\_\_\_\_  
Date

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

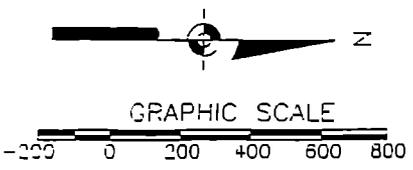
State ground water target levels are as follows:

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



FORMER  
UST 1846-1  
(MAPS 2, 3, & 4)

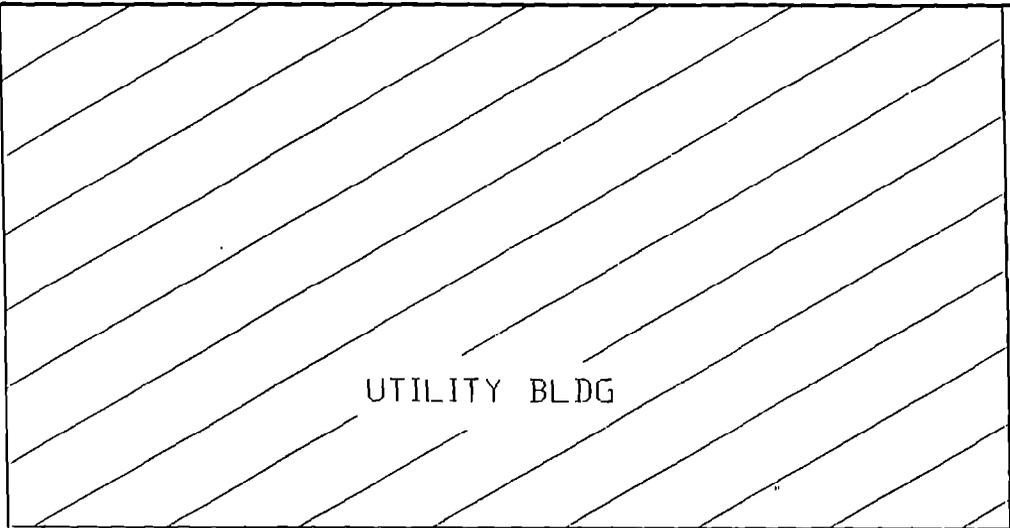
FORMER  
UST 1846-2  
(MAP 5)



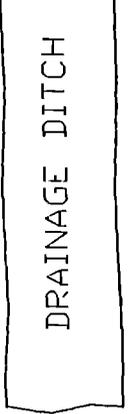
SPORTENVDETHASN  
1899 North Hobson Ave.  
North Charleston, SC 29405-2106  
Ph. (803) 743-6777

Site Map 1  
USTs 1846-1 and 1846-2  
NAS Cecil Field  
Jacksonville, FL

DWG DATE: 15 MAY 97 DWG NAME: CF1846\_1



UTILITY BLDG

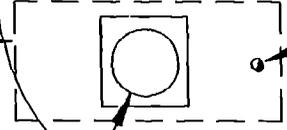


DRAINAGE DITCH

VENT

GRASS

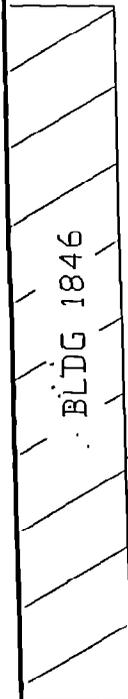
FORMER UST 1846-1



FILL

MANWAY

SECOND STREET



BLDG 1846

ASPHALT DRIVE

GRASS



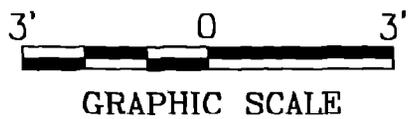
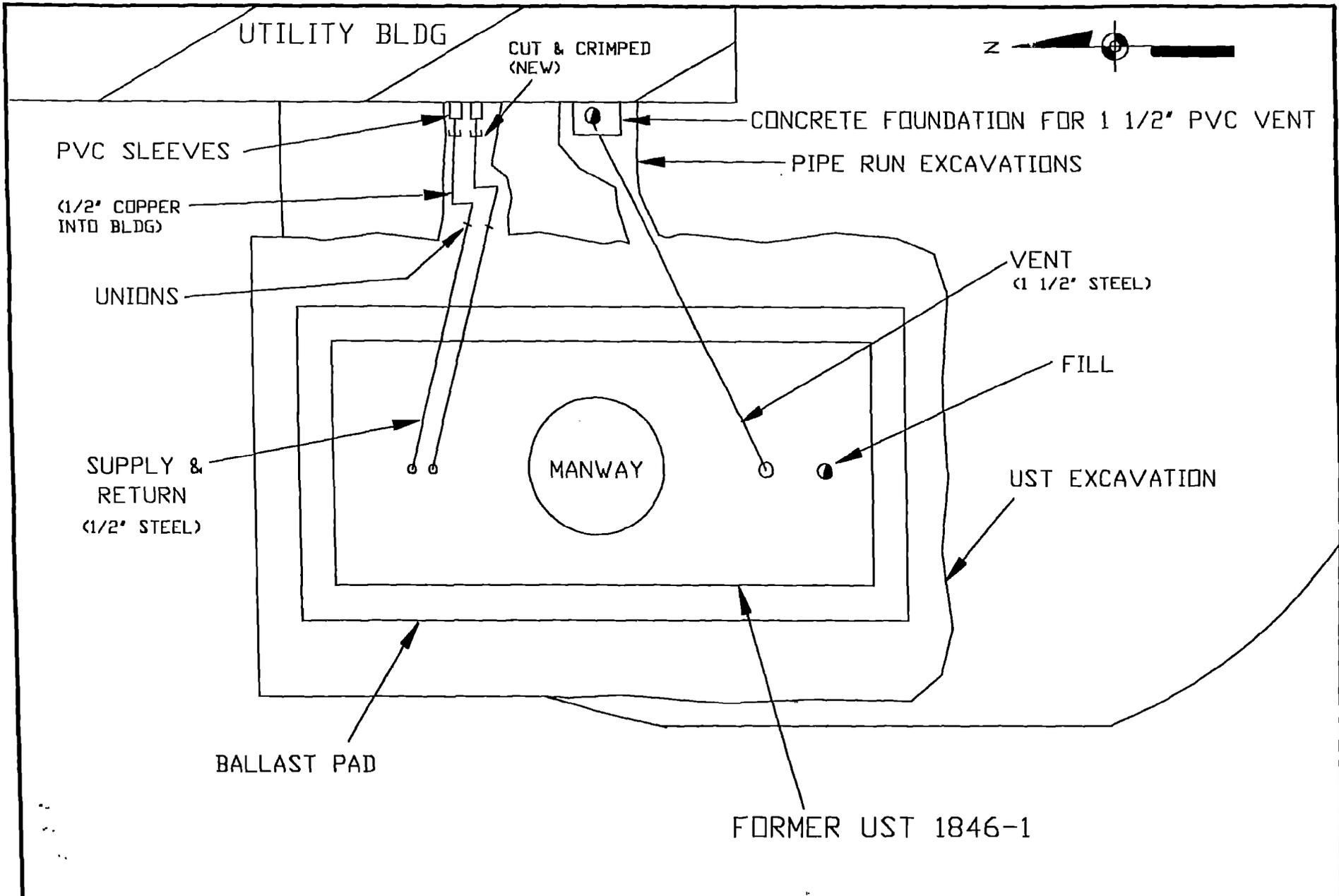
GRAPHIC SCALE

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

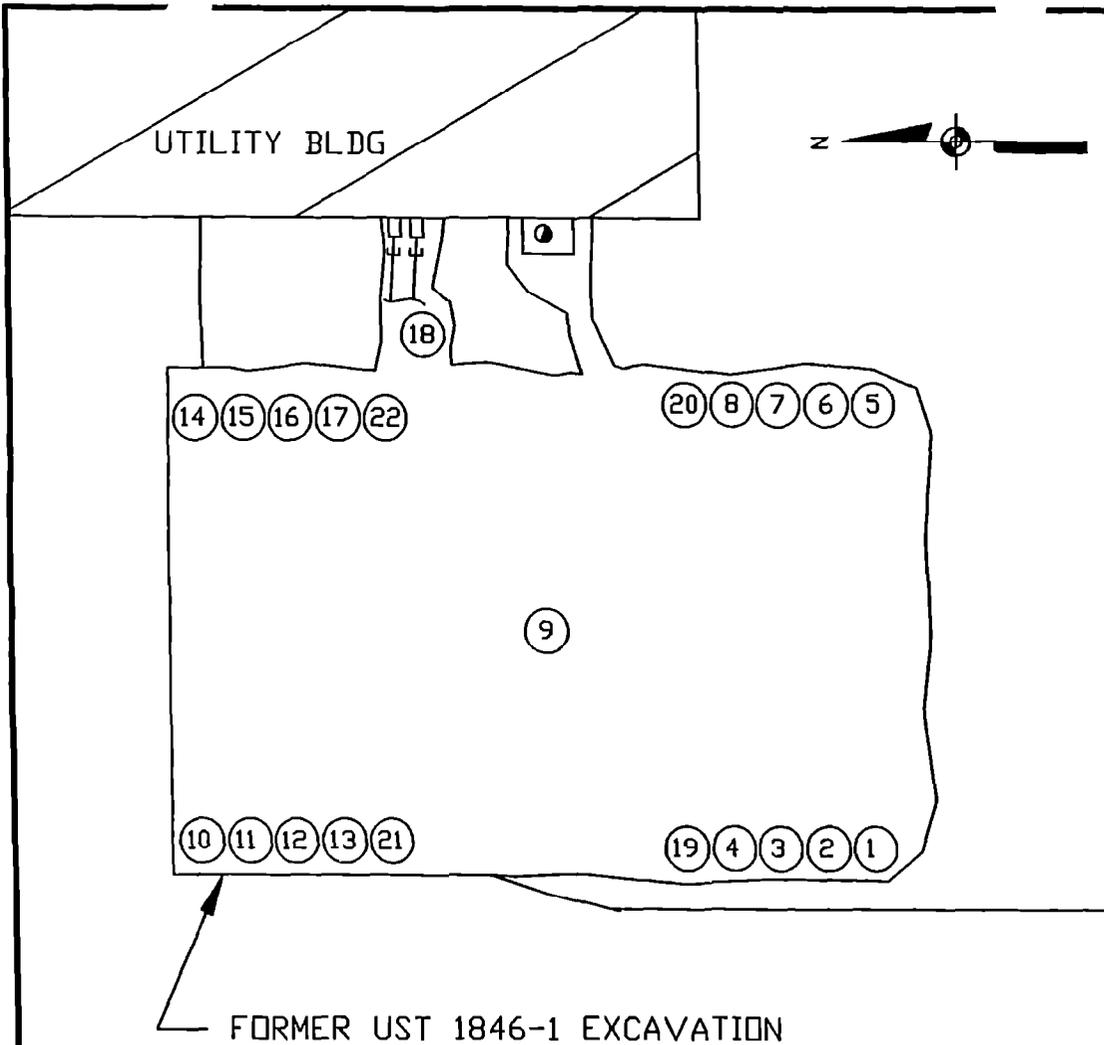
Site Map 2  
UST 1846\_1  
NAS Cecil Field  
Jacksonville, FL

DWG DATE: 24 MAY 97

DWG NAME: CF1846\_2



<p><b>SPORTENVDETHASN</b>          1898 North Hobson Ave.          North Charleston, SC          29405-2108          Ph. (803) 743-8777</p>	<p>Site Map 3          UST 1846_1          NAS Cecil Field          Jacksonville, FL</p>
	<p>DWG DATE: 24 MAY 97    DWG NAME: CF1846_3</p>



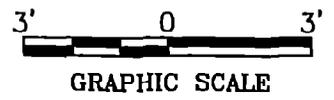
SS #	TIME	DEPTH	READING(ppm)
SS-1	4.11.97 1900	1'	0.0
SS-2	1901	3'	0.0
SS-3	1902	5'	0.0
SS-4	1903	7'	0.0
SS-5	1904	1'	0.0
SS-6	1905	3'	0.0
SS-7	1906	5'	0.0
SS-8	1907	7'	0.0
SS-9	1908	9'	0.0
SS-10	1912	1'	0.0
SS-11	1913	3'	0.0
SS-12	1914	5'	0.0
SS-13	1915	7'	0.0
SS-14	1918	1'	0.0
SS-15	1919	3'	0.0
SS-16	1920	5'	0.0
SS-17	1921	7'	0.0
SS-18	1915	4'	11.0
SS-19	1909	9'	0.0
SS-20	1910	9'	0.0
SS-21	1916	9'	0.0
SS-22	1922	9'	0.0

LEGEND

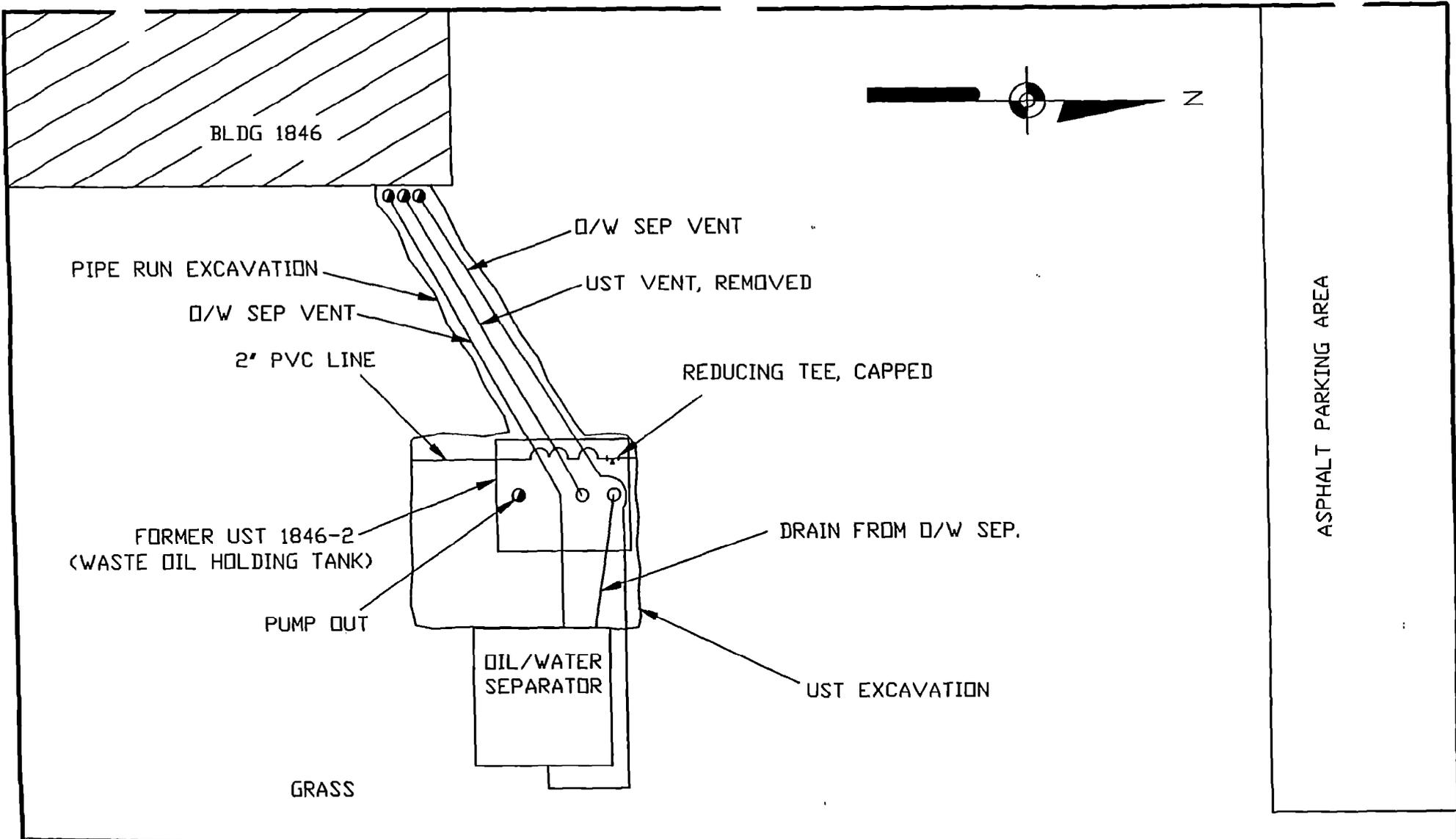
⑨ - SOIL SAMPLE (SS-#)

NOTE:

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



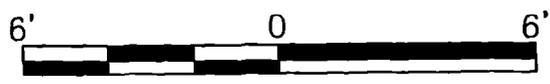
SPORTENVDETHASN 1899 North Hobson Ave. North Charleston, SC 29405-2108 Ph. (803) 743-6777	Site Map 4 UST CF1846_1 NAS Cecil Field Jacksonville, FL	
	DWG DATE: 27 MAY 97	DWG NAME: CF1846_4



ASPHALT PARKING AREA

ASPHALT PARKING AREA

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



GRAPHIC SCALE

<p><b>SPORTENVDETHASN</b>          1899 North Hobson Ave.          North Charleston, SC          29405-2108          Ph. (803) 743-8777</p>	<p>Site Map 5          UST 1846-2          NAS Cecil Field          Jacksonville, FL</p>
<p>DWG DATE: 27 MAY 97</p>	<p>DWG NAME: CF1846_5</p>

**APPENDIX B**  
**MONITORING WELL INSTALLATION DETAIL**

Monitoring Well Installation Detail will be inserted upon approval of the report.

**APPENDIX C**  
**GROUNDWATER ANALYTICAL DATA**

NAS CECIL FIELD -- UST GREY TANK 1846A  
GROUNDWATER DATA -- REPORT REQ NO. 10065

Lab Sample Number: A8F1801270  
Site: UST GREY  
Locator: CEF-1846A-1S  
Collect Date: 17-JUN-98

	VALUE	QUAL UNITS	DL
<b>BTEX AND DICHLOROBENZENES</b>			
Benzene	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1
Toluene	1 U	ug/l	1
Xylenes (total)	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1
1,2-Dichlorobenzene	1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/l	1
<b>PAHs</b>			
Acenaphthene	1 U	ug/l	1
Acenaphthylene	1 U	ug/l	1
Anthracene	1 U	ug/l	1
Benzo (a) anthracene	.1 U	ug/l	.1
Benzo (b) fluoranthene	.1 U	ug/l	.1
Benzo (k) fluoranthene	.05 U	ug/l	.05
Benzo (a) pyrene	.1 U	ug/l	.1
Chrysene	.1 U	ug/l	.1
Dibenzo (a,h) anthracene	.1 U	ug/l	.1
Fluoranthene	.1 U	ug/l	.1
Fluorene	1 U	ug/l	1
Indeno (1,2,3-cd) pyrene	.1 U	ug/l	.1
Benzo (g,h,i) perylene	.1 U	ug/l	.1
Naphthalene	1 U	ug/l	1
Phenanthrene	1 U	ug/l	1
Pyrene	.1 U	ug/l	.1
1-Methylnaphthalene	1 U	ug/l	1
2-Methylnaphthalene	1 U	ug/l	1
FLA PRO			
TPH C8-C40	.5 U	mg/l	.5

U = NOT DETECTED J = ESTIMATED VALUE  
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED  
R = RESULT IS REJECTED AND UNUSABLE