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NSA PANAMA CITY
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CLOSURE ASSESSMENT REPORT FOR UNDERGROUND STORAGE TANK AT BUILDING
371 NSA PANAMA CITY FL
12/1/1997
NAVY PUBLIC WORKS CENTER

CLOSURE ASSESSMENT REPORT
UNDERGROUND STORAGE TANK
BUILDING 371

NAVAL SURFACE WARFARE CENTER
COASTAL SYSTEMS STATION
PANAMA CITY, FLORIDA

Unit Identification Code: N61331

Prepared by:

Navy Public Works Center
Environmental Department
310 John Tower Road
Pensacola, Florida, 32508

Prepared for:

Commanding Officer, Coastal Systems Station
Dahlgren Division, Naval Surface Warfare Center
6703 West Highway 98
Panama City, Florida 32407-7001

Mr Mike Clayton, Code CP2S, Environmental Engineer

December 1997

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Naval Surface Warfare Center
Coastal Systems Station
Panama City, Florida

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FIGURES

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Figure 2: Site Map

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GLOSSARY

AST	Aboveground Storage Tank
CSS	Coastal Systems Station, Panama City, Florida
EPA	Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
OVA	Organic Vapor Analyzer
PWC	US Navy, Public Works Center, Pensacola, Florida
UST	Underground Storage Tank

CLOSURE ASSESSMENT REPORT
UNDERGROUND STORAGE TANK
BUILDING 371

1.0 Facility

Building 371, Naval Surface Warfare Center
Coastal Systems Station
Panama City, Bay County, Florida

2.0 Operator

Commanding Officer, Coastal Systems Station
Dahlgren Division, Naval Surface Warfare Center
6703 West Highway 98, Code CP2S
Panama City, Florida 32407-7001

3.0 Site Location

The Coastal Systems Station is located along St Andrew Bay in Panama City, Florida (Figure 1).

4.0 Date of Closure

12 August 1997

5.0 Project Description

The US Navy Public Works Center (PWC), Pensacola, Florida was tasked by the Coastal Systems Station (CSS), Panama City to close a 560 gallon underground storage tank (UST) system located on the west side of Building 371, CSS Panama City (Figure 2). The UST was removed, cleaned and rendered unuseable by PWC. Photographs of the removal are provided in Attachment A. The UST was properly disposed by the US Navy, Defense Reutilization and Marketing Organization (DRMO), Pensacola, Florida (Attachment B).

The Application for Closure of Pollutant Storage Tank System, Underground Storage Tank Installation and Removal Form, Closure Assessment Form, and Decontamination Certification are provided in Attachments C, D, E, and F respectively.

6.0 Tank Contents

The UST was used to store diesel for on-site heating. The contents were emptied by CSS prior to commencement of work.

The rinsate from the UST cleaning operations was disposed at the Fire Training Facility, Building 439, CSS, Panama City. The petroleum constituents were separated from the water and incinerated.

7.0 Tank Condition

The UST was cylindrically shaped and constructed of fiberglass. The UST was in good condition at the time of removal.

8.0 Excavation Area

The excavation was made approximately six (6) feet wide, ten (10) feet long and seven (7) feet deep. The excavation was filled with clean fill, compacted to grade, and seeded.

9.0 Soil Screening

Two (2) soil borings were installed near the UST using a manually operated hollow stem auger. The soil samples were collected and screened for organic vapor concentrations using the headspace screening technique. The soil samples were extracted at each end of the UST. The soil boring locations and results are provided in Attachment E.

The soil screening was conducted in accordance with the headspace screening criteria in Chapter 62-770 FAC and PWC's Comprehensive Quality Assurance Plan using an organic vapor analyzer (OVA). The OVA was manufactured by Thermo Environmental Instruments, Inc (Model 680 HVM) and equipped with a flame ionization detector (FID).

10.0 Groundwater Analysis

There was no groundwater analysis performed at this site since there were utility lines traversing the excavation, there were no signs of significant contamination and the UST was not regulated.

11.0 Findings and Conclusions

There were no indications of petroleum contamination above the state target levels for storage tank removals.

12.0 Recommendations

This site is recommended for No Further Action.

13.0 Closure Assessment

Performed by the US Navy, Public Works Center (PWC) Pensacola, Florida.

14.0 Project Manager

Paul R. Semmes, P.E.

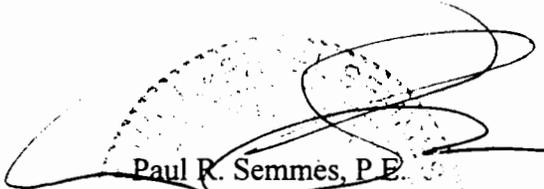
15.0 Project Number

1396004

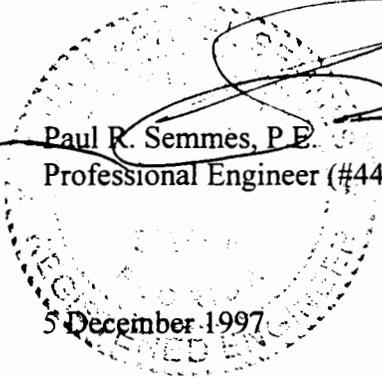
16.0 Report Date

5 December 1997

The engineering evaluations and professional opinions rendered in this Closure Assessment Report that describes the work associated with the storage tank removal at the Coastal Systems Station, Panama City, Florida were conducted or developed in accordance with the commonly accepted procedures consistent with applicable standards of practice. If conditions are determined to exist differently than those described, the undersigned professional engineer should be notified to evaluate the effects of any additional information on the design described in this report.



Paul R. Semmes, P.E.
Professional Engineer (#44137)

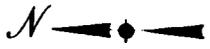


5 December 1997

FIGURES

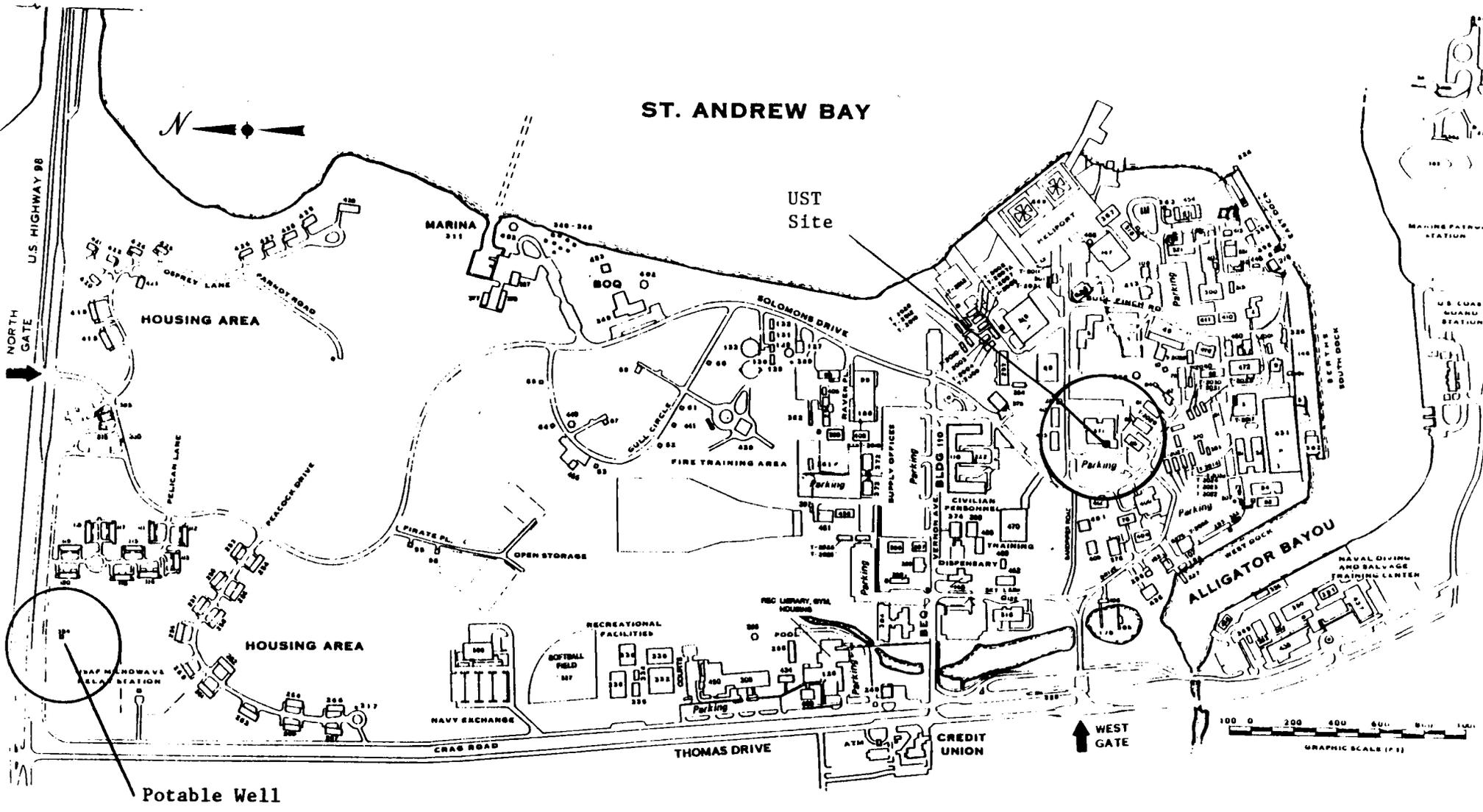
FIGURE 1
Vicinity Map

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



ST. ANDREW BAY

UST Site



HOUSING AREA

MARINA

SOLOMONS DRIVE

FIRE TRAINING AREA

HOUSING AREA

ALLIGATOR BAYOU

Potable Well

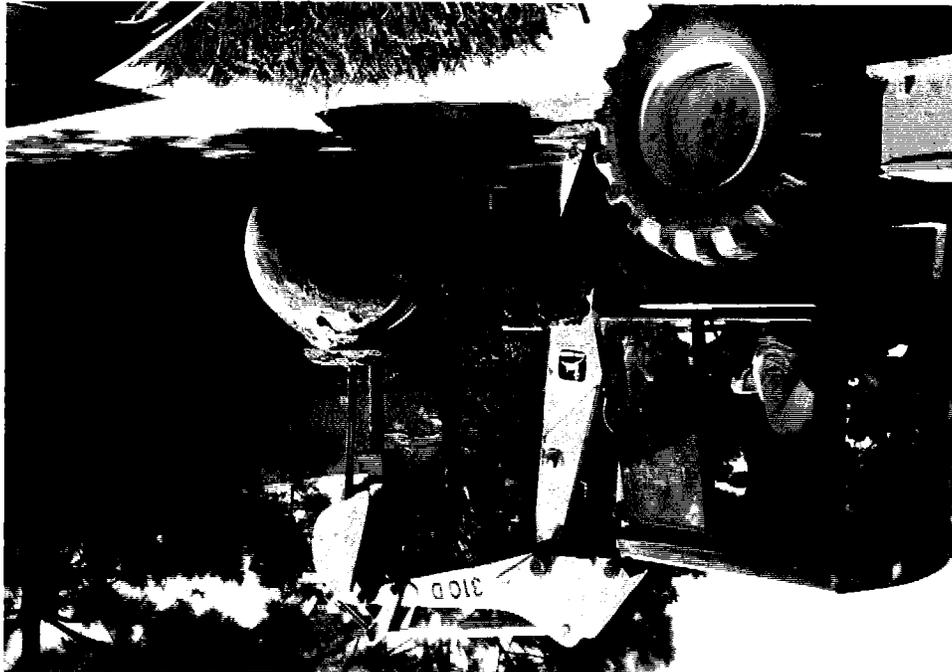
WEST GATE



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

ATTACHMENTS

ATTACHMENT A
Photographs



ATTACHMENT B
Disposal Documents - UST



December 5, 1997

C.O.- Code 423.3
Paul Semmes
310 John Tower Road
Pensacola, Florida 32508

Dear Paul:

Enclosed are the copies of the disposal ticket for the fiberglass tanks from OWS 363, 371, and 146. Also enclosed are copies of disposal of the liquid for 363 OWS.

These documents certify that all waste was disposed of properly and in a timely fashion. The original manifest have been sent to Coastal System Stations.

If I can be of further assistance please feel free to contact me at 850-234-8428.

Sincerely,

Candace M. Esparza
Southern Waste Service

STEELFIELD LANDFILL
 P O BOX 1230
 PANAMA CITY, FL 32402

001013
 SOUTHERN WASTE SERVICES
 HARRY MARSH
 1619 HOYLAN ROAD
 PANAMA CITY BEACH FL 32407

SITE	TICKET	GRID
02	102123	
WEIGHMASTER		
BRANNING		
DATE IN	TIME IN	
09/19/97	10:40	
DATE OUT	TIME OUT	
09/19/97	11:03	

VEHICLE	ROLL OFF

REFERENCE	ORIGIN
	FCB

Scale Gross Weight 43200 LB Inbound - Cash ticket
 Scale 1 Tare Weight 33680 LB
 Net Weight 9520 LB

QTY.	DESCRIPTION	AMOUNT
4.76	C OGD UNSIZED/NER-TN @ \$ 25.00 per TON	119.00
FILE		

Handwritten: 7600

VEH & CAN 6002-1
 DRIVER DON

Operating hours...7:00 AM to 4:00 PM Monday through Saturday
 *** This is to certify that this load does not contain any hazardous materials, medical waste, fluorescent light tubes, motor oils, car batteries or liquids of any type.

SIGNATURE *[Signature]*

NET AMOUNT	119.00
TENDERED	119.00
CHANGE	0.00

CK# 7600

ATTACHMENT C
Application for Closure of
Pollutant Storage Tank System

APPLICATION FOR CLOSURE OF POLLUTANT STORAGE TANK SYSTEM

Provide the facility information requested below.

FDEP Facility # N/A Facility Name NSWC - CSS

Facility Location Building 371

Property Owner Commanding Officer, Coastal Systems Station (Code P25)

Property Owner Address 6703 West Highway, 98 Panama City, Florida 32407-7001

Phone (850) 235-5859

Method of Tank Closure Removal

Pollutant Storage Systems Specialty Contractor (PSSSC) who will be on site supervising closure activities. Attach copy of PSSSC license.

Individual Licensed as PSSSC N/A PSSSC # N/A

Firm U.S. Navy - Public Works Center (PWC)

Address 310 John Tower Road, Pensacola, FL 32508

Indicate the firm (s) that will degas, remove, and transport the tank(s), and the method of degassification.

Degassification Method Air Eduction (API 1604-4.2.5)

Firm Removing Tanks U.S. Navy - Public Works Center (PWC)

Contact Mr. Paul Semmes, P.E. Phone (850) 452-4315

Firm Transporting Tanks U. S. Navy - Public Works Center (PWC)

Contact Mr. Paul Semmes, P.E. Phone (850) 452-4315

Firm Receiving Tanks for Ultimate Disposal U.S. Navy - DRMO

Contact Mr. Gayle Brown Phone (850) 452-3459

Indicate the laboratory that will conduct groundwater analysis.

Contracted Laboratory U.S. Navy - PWC Phone (850) 452-3180

Contact Mr. Joe Moore FDEP QA/QC 920121G

Indicate firm(s) transporting and disposing of contaminated soils.

Firm Transporting Soils Southern Waste Systems, Inc.

Contact Ms. Candace Esparza Phone (850)234-8428

Firm Remediating/Disposing Soils Southern Waste Systems, Inc.

Contact Ms. Candace Esparza Phone (850) 234-8428

Disposal/Remediation Method Landfill

Indicate the firm(s) that will transport and ultimately dispose of residual product and sludge from the tanks.

Firm Transporting Residual Product and Sludge Southern Waste Systems, Inc.

(850) 234-8428

Contact Ms. Candace Esparza Phone (850) 234-8428

Firm Receiving/Disposal Residual Product and Sludge Southern Waste Systems, Inc.

(850) 234-8428

Contact Ms. Candace Esparza Phone (850) 234-8428

Indicate the firm and names of personnel that will conduct field sampling.

Contracted Firm U.S. Navy - Public Works Center (PWC)

Contact Mr. Paul Semmes, P.E. Phone (850) 452-4315

Person (s) Sampling Mr. Paul Semmes, P.E.

Equipment used for soil screening (Specific Make and Model) Organic Vapor Analyzer

(OVA) Thermo Environmental (680 HVM) equipped w/Flame Ionization Detector (FID).

ATTACHMENT D
Underground Storage Tank
Installation and Removal Form



DER Form #	17-761.800(5)
Form Title	Underground Storage Tank Installation & Removal Form for Certified Contractors
Effective Date	December 10, 1990
DER Application No.	(Filed in by DER)

Underground Storage Tank Installation and Removal Form For Certified Contractors

Pollutant Storage System Specialty Contractors as defined in Section 489.113, Florida Statutes (Certified contractors as defined in Section 17-761.200, Florida Administrative Code) shall use this form to certify that the installation, replacement or removal of the storage tank system(s) located at the address listed below was performed in accordance with Department Reference Standards.

General Facility Information

- DER Facility Identification No.: N/A
- Facility Name: NSWC Coastal Systems Station Telephone: (850) 235-5859
- Street Address (physical location): Building 371
- Owner Name: CO, Coastal Systems Station Telephone: (850) 235-5859
- Owner Address: 6703 West Highway 98, Panama City, Florida 32407-7001
- Number of Tanks: a. Installed at this time None b. Removed at this time One
- Tank(s) Manufactured by: Unknown
- Date Work Initiated: 8/12/97 9. Date Work Completed: 8/12/97

Underground Pollutant Tank Installation Checklist

Please certify the completion of the following installation requirements by placing an (X) in the appropriate box.

- The tanks and piping are corrosion resistant and approved for use by State and Federal Laws.
- Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87), API (American Petroleum Institute) 1615, PEI (Petroleum Equipment Institute) RP100-87 and the manufacturers' specifications.
- Tanks and piping pretested and installed in accordance with NFPA 30(87), API 1615, PEI/RP100(87) and the manufacturers' specifications.
- Steel tanks and piping are cathodically protected in accordance with NFPA 30(87), API 1632, UL (Underwriters Laboratory) 1746, STI (Steel Tank Institute) R892-89 and the manufacturer's specifications.
- Tanks and piping tested for tightness after installation in accordance with NFPA 30(87) and PEI/RP100-87.
- Monitoring well(s) or other leak detection devices installed and tested in accordance with Section 17-761.640, Florida Administrative Code (F.A.C.)
- Spill and overflow protection devices installed in accordance with Section 17-761.500, F.A.C.
- Secondary containment installed for tanks and piping as applicable in accordance with Section 17-761.500, F.A.C.

Please Note: The numbers following the abbreviations (e.g. API 1615) are publication or specification numbers issued by these institutions

Underground Pollutant Tank Removal Checklist

- Closure assessment performed in accordance with Section 17-761.800, F.A.C.
- Underground tank removed and disposed of as specified in API 1604 in accordance with Section 17-761.800, F.A.C.

ATTACHMENT E
Closure Assessment Form
Soil Analysis



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 62-761.800(3) or 62-762.800(3), Florida Administrative Code.

Please Print or Type
Complete All Applicable Blanks

- 1. Date 12/5/97
2. DEP Facility ID Number: N/A 3. County Bay
4. Facility Name: NSWC Coastal Systems Station
5. Facility Owner: Commanding Officer, Coastal Systems Station
6. Facility Address: Building 371
7. Mailing Address: 6703 West Highway 98, Panama City, Florida 32407-7001
8. Telephone Number: (850) 235-5859 9. Facility Operator: Mike Clayton
10. Are the Storage Tank(s): (Circle one or both) A. Aboveground or B. Underground
11. Type of Product(s) Stored: Diesel
12. Were the Tank(s): (Circle one) A. Replaced B. Removed C. Closed in Place D. Upgraded (aboveground tanks only)
13. Number of Tanks closed: One 14. Age of Tanks: 13

Facility Assessment Information

- Yes No Not Applicable
1. Was a Discharge Reporting Form submitted to the Department?
If yes, When: Where:
2. Is the depth to ground water less than 20 feet?
3. Are monitoring wells present around the storage system?
If yes, please specify Vapor Monitoring Water Monitoring
4. Is there free product present in the monitoring wells or within the excavation?
5. Were the petroleum hydrocarbon vapor levels in the soil greater than 500 parts per million for gasoline?
Specify sample type: Vapor Monitoring wells Soil sample(s)
6. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene?
Specify sample type: Vapor Monitoring wells Soil sample(s)
7. 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 sheet(s).
8. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release?
9. Are any potable wells located within 1/4 of a mile radius of the facility?
10. Is there a surface water body within 1/4 mile radius of the site? If yes, indicate distance:
11. 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.
12. If a facility has a pollutant storage tank system that has both gasoline and kerosine/diesel stored on site, both EPA method 602 and EPA method 610 must be performed on the ground water samples.

Summary of OVA Readings

**Closure Assessment Report
Underground Storage Tank, Building 371
Naval Surface Warfare Center
Coastal Systems Station
Panama City, Florida**

Hand Auger Sample No.	Depth (Feet)	Unfiltered (ppm)	Filtered (ppm)	Total Hydrocarbon Readings (ppm)
SS-1	7	1 ½	<1	1 ½
SS-2	7	2	<1	2

Readings for unfiltered samples are total hydrocarbon readings including methane; readings for filtered samples are methane only.

Notes: ppm = parts per million.

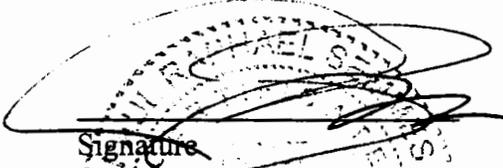
ATTACHMENT F
Decontamination Certification

CERTIFICATE OF DECONTAMINATION

It is hereby certified that the following Storage Tanks located at the Naval Surface Warfare Center, Coastal Systems Station, Panama City, Florida have been decontaminated by the Navy Public Works Center (PWC), Pensacola, Florida:

Bldg 92	Bldg 110	Bldg 300	Bldg 371
Bldg 94	Bldg 129	Bldg 321	
Bldg 98	Bldg 146	Bldg 363	

The Storage Tanks listed above have been triple rinsed and cleaned in accordance with 40 CFR 261.7(b)(3)(i) and have been rendered unusable.


Signature
Paul R Semmes, PE
Environmental Engineer
Title
REGISTERED ENGINEER
FLORIDA
12/15/97
Date