

N60200.AR.000646  
NAS CECIL FIELD, FL  
5090.3a

STORAGE TANK CLOSURE ASSESSMENT FORM FOR ENLISTED HOUSING UNIT 421  
WITH ATTACHMENTS NAS CECIL FIELD FL  
6/6/1995  
INNOVATIVE SERVICES INTERNATIONAL



# Florida Department of Environmental Regulation

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

DER Form #	17-761 (Rev. 11/88)
Form Title	Closure Assessment Form
Effective Date	December 10, 1990
DER Application No.	_____
Form Issued by	DER

## 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 Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type  
Complete All Applicable Blanks

- Date: June 6, 1995
- DER Facility ID Number: N/A
- County: Duval
- Facility Name: Naval Air Station - Cecil Field Enlisted Housing Unit # 421
- Facility Owner: U.S. Navy
- Facility Address: Naval Air Station - Cecil Field
- Mailing Address: Naval Air Station - Cecil Field
- Telephone Number: (\_\_\_\_) \_\_\_\_\_
- Facility Operator: U.S. Navy
- Are the Storage Tank(s): (Circle one or both) A. Aboveground or  B. Underground
- Type of Product(s) Stored: #2 Heating Oil
- Were the Tank(s): (Circle one) A. Replaced  B. Removed C. Closed in Place D. Upgraded (aboveground tanks only)
- Number of Tanks Closed: One (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?<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 checked="" type="checkbox"/> | <input 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 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"/> | <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: _____  |

DEP Form 17-761.900(1)
Form Title: Closure Assessment Form - I
Effective Date: December 10, 1990
DEP Application No. _____

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

*[Handwritten Signature]*  
\_\_\_\_\_  
Signature of Person Performing Assessment

*Geologist*  
\_\_\_\_\_  
Title of Person Performing Assessment

\_\_\_\_\_  
Date

*6/9/95*  
\_\_\_\_\_  
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> |
|---|--|



# Florida Department of Environmental Regulation

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

DER Form #	17-761.900(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.: Not Applicable
- Facility Name: Naval Air Station - Cecil Field Enlisted Housing Telephone: (\_\_\_\_) \_\_\_\_\_
- Street Address (physical location): Enlisted mens Housing unit 2421
- Owner Name: U.S. Navy Telephone: (\_\_\_\_) \_\_\_\_\_
- Owner Address: \_\_\_\_\_
- Number of Tanks: a. Installed at this time \_\_\_\_\_ b. Removed at this time 1
- Tank(s) Manufactured by: Unknown
- Date Work Initiated: 4-25-95 9. Date Work Completed: 4-25-95

### 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.

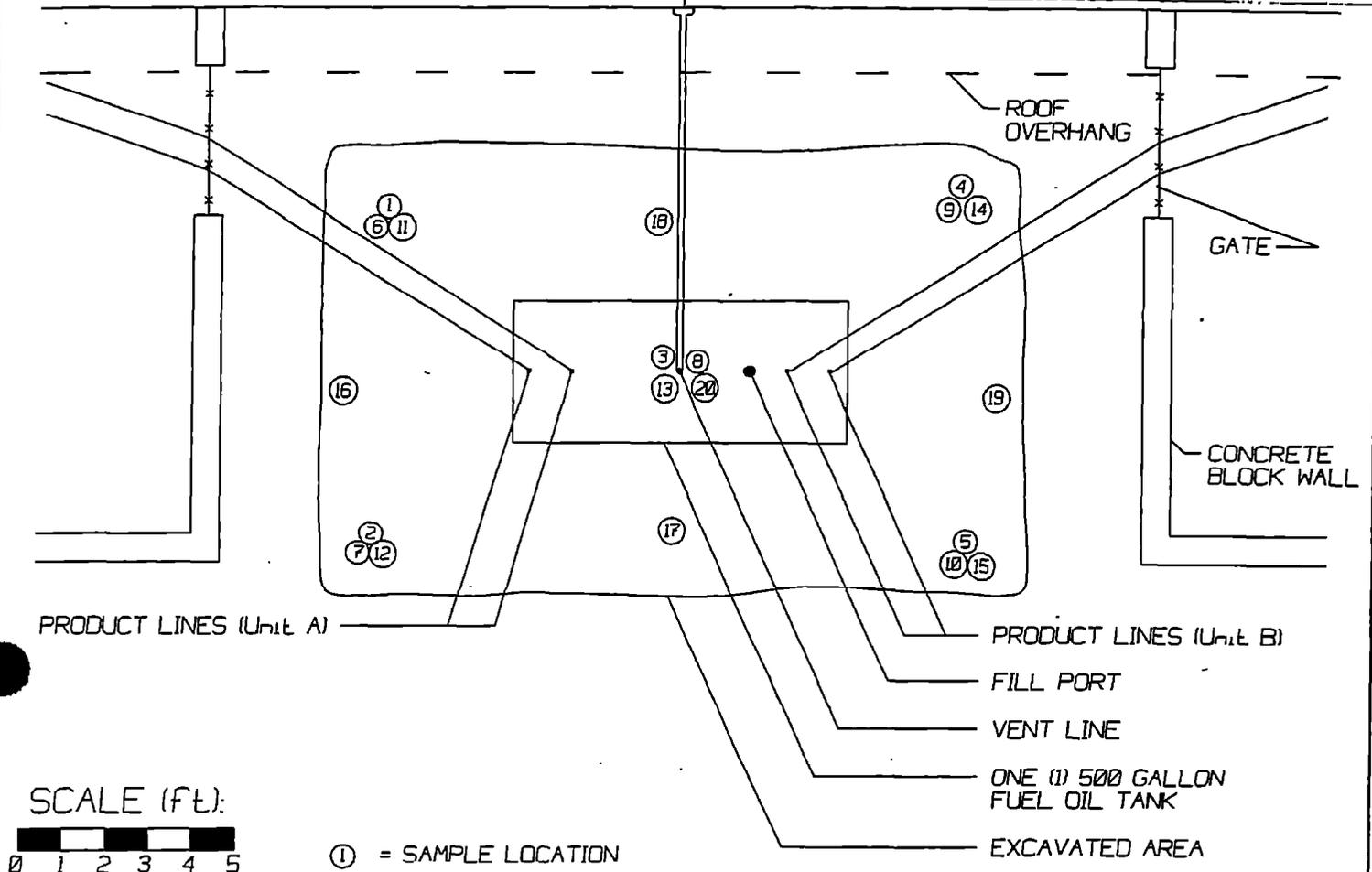
### Underground Pollutant Tank Removal Checklist

- 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.



ENLISTED HOUSING  
BUILDING #421  
UNIT A

ENLISTED HOUSING  
BUILDING #421  
UNIT B



SCALE (FT):



SAMPLE NO.	HC READING	DEPTH	SAMPLE NO.	HC READING	DEPTH
1	0.0	1'	11	0.0	3'
2	0.0	1'	12	0.0	3'
3	0.0	1'	13	0.0	3'
4	0.0	1'	14	0.0	3'
5	0.1	1'	15	0.0	3'
6	0.0	2'	16	0.0	4'
7	0.0	2'	17	0.0	4'
8	0.0	2'	18	0.0	4'
9	0.0	2'	19	4.0	4'
10	0.0	2'	20	0.0	4'

ALL SAMPLES ANALYZED WITH A THERMO ENVIRONMENTAL INSTRUMENTS MODEL 580B PHOTOIONIZATION DETECTOR.



INNOVATIVE  
SERVICES  
INTERNATIONAL, INC.

## SITE PLAN

ENLISTED HOUSING UNIT #421

NAVAL AIR STATION  
CECIL FIELD  
JACKSONVILLE, FLORIDA

Geological Environmental and Oceanographic Sciences, Inc.

1057 North Ellis Road, Suite 17  
 Jacksonville, Florida 32254  
 (904) 786-8340  
 (800) 468-6755  
 (904) 786-6799 Fax

Water  
 Soil  
 Air  
 Analysis and Consulting

**Geos Inc.**

IS1100014396  
 Attn: RON BOARDMAN

Page 1  
 5 Jun 1995  
 Report J5-05-211-01  
 LAB ID. 82225/EB2101

P.O. BOX 150016  
 NAS CECIL FIELD, FL  
 32215

Sample Description:  
 CECIL FIELD ENLISTED HOUSING / ENLISTED HSG #421  
 GROUNDWATER

SAMPLE ID.: ENL-421-595  
 COLLECTED: 05/22/95 14:25  
 RECEIVED: 05/22/95  
 COLLECTED BY: S.W. VOCKELL

Parameter	Result	Units	Method	Det. Limit	Extracted	Analyzed	Analyst
Hydrocarbons, Total IR	<0.200	mg/L	418.1	0.200	05/26/95	05/30/95	AM
Lead, Total	0.085	mg/L	239.1	0.005	05/26/95	06/02/95	JC
Polynuclear Aromatics			625\8270				
Naphthalene	BDL	µg/L		10	05/25/95	05/25/95	AT
Acenaphthylene	BDL	µg/L		10	05/25/95	05/25/95	AT
1-Methylnaphthalene	BDL	µg/L		10	05/25/95	05/25/95	AT
2-Methylnaphthalene	BDL	µg/L		10	05/25/95	05/25/95	AT
Acenaphthene	BDL	µg/L		10	05/25/95	05/25/95	AT
Fluorene	BDL	µg/L		10	05/25/95	05/25/95	AT
Phenanthrene	BDL	µg/L		10	05/25/95	05/25/95	AT
Anthracene	BDL	µg/L		10	05/25/95	05/25/95	AT
Fluoranthene	BDL	µg/L		10	05/25/95	05/25/95	AT
Pyrene	BDL	µg/L		10	05/25/95	05/25/95	AT
Benzo(a)anthracene	BDL	µg/L		10	05/25/95	05/25/95	AT
Chrysene	BDL	µg/L		10	05/25/95	05/25/95	AT
Benzo(b)fluoranthene	BDL	µg/L		10	05/25/95	05/25/95	AT
Benzo(k)fluoranthene	BDL	µg/L		10	05/25/95	05/25/95	AT
Benzo(a)pyrene	BDL	µg/L		10	05/25/95	05/25/95	AT
Indeno(1,2,3-c,d)pyrene	BDL	µg/L		10	05/25/95	05/25/95	AT
Dibenzo(a,h)anthracene	BDL	µg/L		10	05/25/95	05/25/95	AT
Benzo(g,h,i)perylene	BDL	µg/L		10	05/25/95	05/25/95	AT
Surrogates							
Nitrobenzene-d5	92	Min: 35		Max: 114			
2-Fluorobiphenyl	65	Min: 43		Max: 116			
4-Terphenyl-d14	99	Min: 33		Max: 141			
<del>Volatile Aromatics</del>			602				
Methyl-tert-butyl ether	BDL	µg/L		5.0	05/26/95	05/26/95	MD
Benzene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Toluene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Ethyl benzene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Xylene, Total	BDL	µg/L		1.0	05/26/95	05/26/95	MD

Tampa  
 Jacksonville

TS1100014396  
 Attn: RON BOARDMAN  
 P.O. BOX 150016  
 NAS CECIL FIELD, FL  
 32215

Page 2  
 5 Jun 1995  
 Report J5-05-211-01  
 LAB ID. 82223/E82101

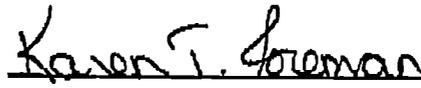
Parameter	Result	Units	Method	Det. Limit	Extracted	Analyzed	Analyst
Chlorobenzene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
1,4-Dichlorobenzene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
1,3-Dichlorobenzene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
1,2-Dichlorobenzene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Surrogates							
Bromobenzene	95.2	Min: 70		Max: 130			
Volatiles Halocarbons 601							
Dichlorodifluoromethane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Chloromethane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Bromomethane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Vinyl chloride	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Chloroethane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Methylene chloride	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Trichlorofluoromethane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
1,1-Dichloroethene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
1,1-Dichloroethane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
total-1,2-Dichloroethene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Chloroform	BDL	µg/L		1.0	05/26/95	05/26/95	MD
1,2-Dichloroethane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
1,1,1-Trichloroethane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Carbon tetrachloride	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Bromodichloromethane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
1,2-Dichloropropane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
trans-1,3-Dichloropropene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Trichloroethene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Dibromochloromethane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
1,1,2-Trichloroethane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
cis-1,3-Dichloropropene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
2-Chloroethylvinyl ether	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Bromoform	BDL	µg/L		1.0	05/26/95	05/26/95	MD
1,1,2,2-Tetrachloroethane	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Tetrachloroethene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Chlorobenzene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
1,3-Dichlorobenzene	BDL	µg/L		1.0	05/26/95	05/26/95	MD
1,2-Dichlorobenzene	BDL	µg/L		1.0	05/26/95	05/26/95	MD

IS1100014396  
Attn: RON BOARDMAN

P.O. BOX 150016  
NAS CECIL FIELD, FL  
32215

Page 3  
5 Jun 1995  
Report J5-05-211-01  
LAB ID. 82223/EB2101

Parameter	Result	Units	Method	Det. Limit	Extracted	Analyzed	Analyst
1,4-Dichlorobenzene Surrogates	BDL	µg/L		1.0	05/26/95	05/26/95	MD
Bromobenzene	92.6	Min: 70		Max: 130			

  
Karen Foreman, Laboratory Director