

N60200.AR.000719
NAS CECIL FIELD, FL
5090.3a

STORAGE TANK CLOSURE ASSESSMENT FORM FOR FIELD OFFICER HOUSING UNIT M
WITH ATTACHMENTS NAS CECIL FIELD FL
7/10/1995
INNOVATIVE SERVICES INTERNATIONAL



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

DER Form # 17-761.60416
 Form Title: Closure Assessment Form
 Revision Date: December 10, 1990
 DER Application No. _____
 If used on the 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

1. Date: July 10, 1995
2. DER Facility ID Number: N/A 3. County: Duval
4. Facility Name: Naval Air Station - Cecil Field Officer Housing Unit "M"
5. Facility Owner: U.S. Navy
6. Facility Address: Naval Air Station - Cecil Field
7. Mailing Address: Naval Air Station - Cecil Field
8. Telephone Number: (____) _____ 9. Facility Operator: U.S. Navy
10. Are the Storage Tank(s): (Circle one or both) A. Aboveground or B. Underground
11. Type of Product(s) Stored: #2 Heating Oil
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 (1) 14. 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 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 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 (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: _____ |

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

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



 Signature of Person Performing Assessment

 Professional Geologist

 Title of Person Performing Assessment

 Date

 7/11/95

 Date

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

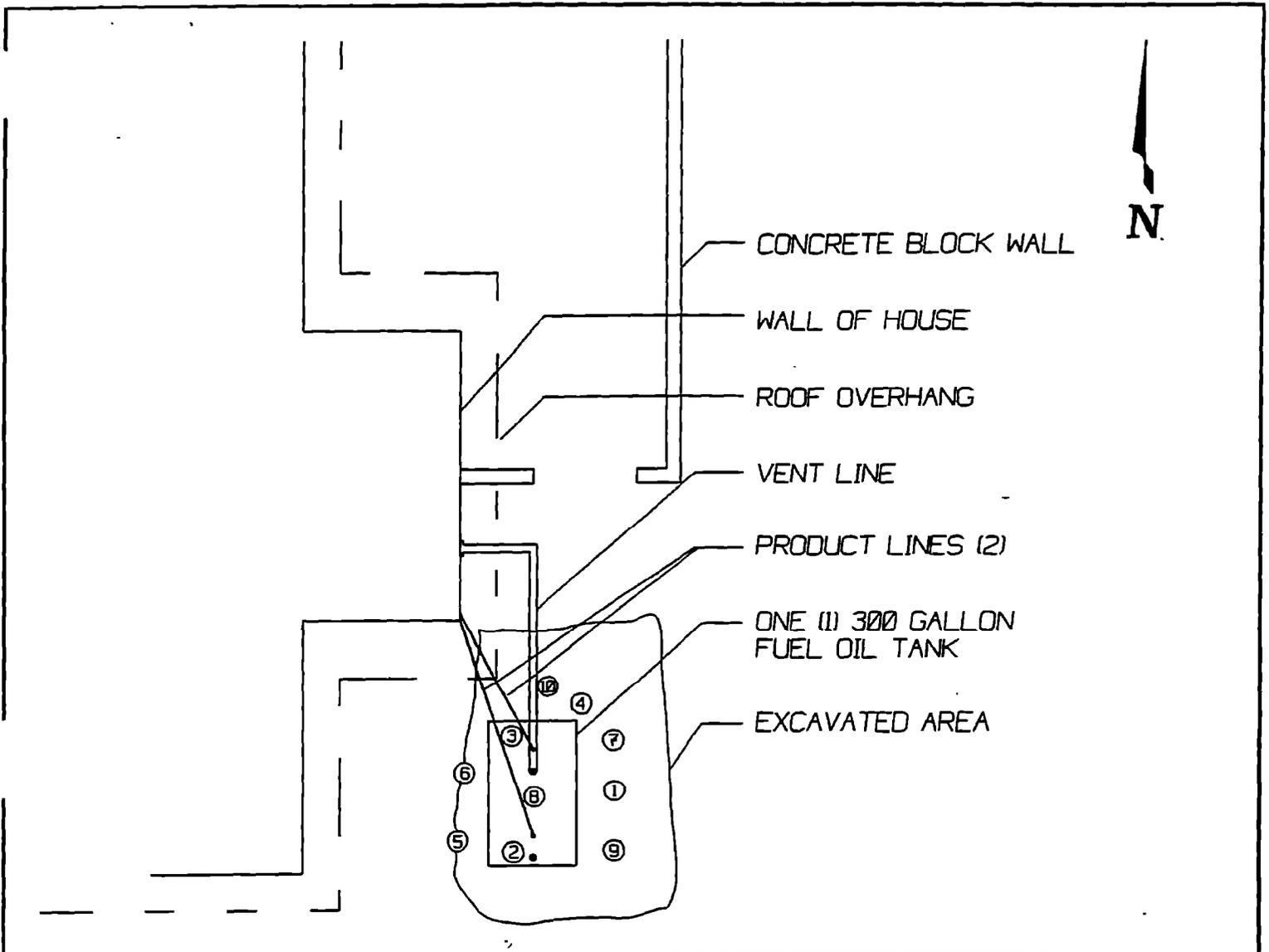
State ground water target levels are as follows:

1. For gasoline (EPA Method 602):

- a. Benzene 1 ug/l
- b. Total VOA 50 ug/l
 - Benzene
 - Toluene
 - Total Xylenes
 - Ethylbenzene
- c. Methyl Tertiary-Butyl Ether (MTBE) 50 ug/l

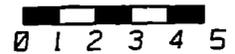
2. For kerosene/diesel (EPA Method 610):

- a. Polynuclear Aromatic Hydrocarbons (PAHS)
(Best achievable detection limit, 10 ug/l maximum)



SAMPLE #	HC	DEPTH	TIME (Collected/Read)
1	0.0	6'	09:35/09:53
2	0.0	3'	09:37/09:54
3	0.7	2'	09:52/09:59
4	47.0	3'	10:32/10:37
5	0.4	4'	10:43/10:48
6	0.4	4'	10:43/10:49
7	14.6	5'	10:48/10:53
8	0.0	6'	10:48/10:54
9	0.0	5'	10:49/10:55
10	8.9	4'	10:50/10:57

SCALE (ft.):



**INNOVATIVE
 SERVICES
 INTERNATIONAL, INC.**

SITE PLAN

**JUNIOR OFFICER HOUSING
 UNIT "M"**

NAVAL AIR STATION
 CECIL FIELD
 JACKSONVILLE, FLORIDA

GEOLOGICAL, ENVIRONMENTAL AND OCEANOGRAPHIC SCIENCES, INC.

ENVIRONMENTAL SPECIALTY LABORATORY (813) 626-0101
 5909A BRECKENRIDGE PARKWAY FAX: (813) 626-0746
 TAMPA, FLORIDA 33610-4237

IS1100014396
 Attn: RON BOARDMAN

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

Page 1
 6 Jul 1995
 Report J5-06-227-01
 LAB ID. 82223/E82101

Sample Description:
 CECIL FIELD OFFICER HOUSING/ CECIL FIELD N.A.S.
 TEMP. WELL @ JR. OFFICER UNIT "M"
 GROUNDWATER

SAMPLE ID.: JO-M-695
 COLLECTED: 06/23/95 14:46
 RECEIVED: 06/23/95
 COLLECTED BY: S. VOCKELL

Parameter	Result	Units	Method	Det. Limit	Extracted	Analyzed	Analyst
Job: TEMP_W TEMP. WELL ANALYSIS							
Hydrocarbons, Total IR	<0.200	mg/L	418.1	0.200	06/29/95	06/29/95	AM
Lead, Total	0.020	mg/L	239.2	0.005	06/29/95	07/05/95	JC
Polynuclear Aromatics			625\8270				
Naphthalene	BDL	µg/L		10	06/28/95	06/30/95	AT
Acenaphthylene	BDL	µg/L		10	06/28/95	06/30/95	AT
1-Methylnaphthalene	BDL	µg/L		10	06/28/95	06/30/95	AT
2-Methylnaphthalene	BDL	µg/L		10	06/28/95	06/30/95	AT
Acenaphthene	BDL	µg/L		10	06/28/95	06/30/95	AT
Fluorene	BDL	µg/L		10	06/28/95	06/30/95	AT
Phenanthrene	BDL	µg/L		10	06/28/95	06/30/95	AT
Anthracene	BDL	µg/L		10	06/28/95	06/30/95	AT
Fluoranthene	BDL	µg/L		10	06/28/95	06/30/95	AT
Pyrene	BDL	µg/L		10	06/28/95	06/30/95	AT
Benzo(a)anthracene	BDL	µg/L		10	06/28/95	06/30/95	AT
Chrysene	BDL	µg/L		10	06/28/95	06/30/95	AT
Benzo(b)fluoranthene	BDL	µg/L		10	06/28/95	06/30/95	AT
Benzo(k)fluoranthene	BDL	µg/L		10	06/28/95	06/30/95	AT
Benzo(a)pyrene	BDL	µg/L		10	06/28/95	06/30/95	AT
Indeno(1,2,3-c,d)pyrene	BDL	µg/L		10	06/28/95	06/30/95	AT
Dibenzo(a,h)anthracene	BDL	µg/L		10	06/28/95	06/30/95	AT
Benzo(g,h,i)perylene	BDL	µg/L		10	06/28/95	06/30/95	AT
Surrogates							
Nitrobenzene-d5	85	Min: 35		Max: 114			
2-Fluorobiphenyl	78	Min: 43		Max: 116			
4-Terphenyl-d14	85	Min: 33		Max: 141			
Volatile Aromatics 602							
Methyl-tert-butyl ether	BDL	µg/L		5.0	06/26/95	06/26/95	MD
Benzene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Toluene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Ethyl benzene	BDL	µg/L		1.0	06/26/95	06/26/95	MD

IS1100014396
 Attn: RON BOARDMAN
 P.O. BOX 150016
 NAS CECIL FIELD, FL
 32215

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 6 Jul 1995
 Report J5-06-227-01
 LAB ID. 82223/EB2101

Parameter	Result	Units	Method	Det. Limit	Extracted	Analyzed	Analyst
Xylene, Total	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Chlorobenzene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
1,4-Dichlorobenzene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
1,3-Dichlorobenzene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
1,2-Dichlorobenzene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Surrogates							
Bromobenzene	103	Min: 70		Max: 130			
Volatile Halocarbons			601				
Dichlorodifluoromethane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Chloromethane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Bromomethane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Vinyl chloride	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Chloroethane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Methylene chloride	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Trichlorofluoromethane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
1,1-Dichloroethene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
1,1-Dichloroethane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
total-1,2-Dichloroethene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Chloroform	BDL	µg/L		1.0	06/26/95	06/26/95	MD
1,2-Dichloroethane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
1,1,1-Trichloroethane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Carbon tetrachloride	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Bromodichloromethane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
1,2-Dichloropropane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
trans-1,3-Dichloropropene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Trichloroethene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Dibromochloromethane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
1,1,2-Trichloroethane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
cis-1,3-Dichloropropene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
2-Chloroethylvinyl ether	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Bromoform	BDL	µg/L		1.0	06/26/95	06/26/95	MD
1,1,2,2-Tetrachloroethane	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Tetrachloroethene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Chlorobenzene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
1,3-Dichlorobenzene	BDL	µg/L		1.0	06/26/95	06/26/95	MD

IS1100014396

Attn: RON BOARDMAN

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

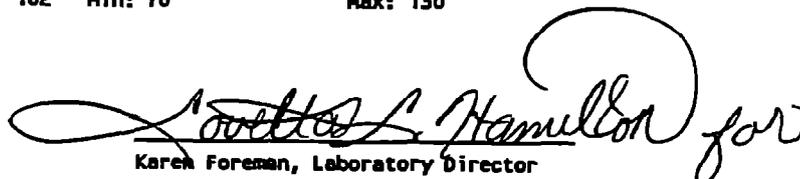
Page 3

6 Jul 1995

Report J5-06-227-01

LAB ID. 82223/E82101

Parameter	Result	Units	Method	Det. Limit	Extracted	Analyzed	Analyst
1,2-Dichlorobenzene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
1,4-Dichlorobenzene	BDL	µg/L		1.0	06/26/95	06/26/95	MD
Surrogates							
Bromobenzene	102	Min: 70		Max: 130			


Karen Foreman, Laboratory Director


CLIENT NAME: ISI	PROJECT NAME: Cecil Field Officer Housing
ADDRESS: Cecil Field	P. O. NUMBER / PROJECT NUMBER
PHONE: 778-2904 FAX:	PROJECT LOCATION: Cecil Field NAS
CONTACT: R. Boardman	SAMPLED BY: Scott W. Vockell
TURN AROUND TIME or RESULTS DUE BY: <input type="checkbox"/> STANDARD <input type="checkbox"/> VERBAL <input checked="" type="checkbox"/> RUSH 72 hr <input type="checkbox"/> FAX <input type="checkbox"/> OTHER <input type="checkbox"/> HARD COPY	SPECIAL INSTRUCTIONS:

601 GOR w/MTBE 3K-40ml HCL
 610 100ml AS UN
 TPA 100ml AS HCL
 Pb 50ml AS HCL
 Plastic 50ml AS HCL

SAMPLE ID	DESCRIPTION	DATE	TIME	TYPE	PARAMETER	RESULT	UNIT	ANALYST	LAB	REMARKS
30-M-695	Temp Well @ Jr. Officer Hsg. Unit "M"	6/23/95	1446	GW	6	X	X	X	X	

<input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Drinking Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Solid/Soil <input type="checkbox"/> Sludge <input type="checkbox"/> Hazardous Waste <input type="checkbox"/> Air																									
FIELD PARAMETERS / COMMENTS:																									
<table border="1"> <thead> <tr> <th>TRANS. NO.</th> <th>TRANSFERS RELINQUISHED BY:</th> <th>ACCEPTED BY:</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Scott W. Vockell</td> <td>K. Hawille</td> <td>6/23/95</td> <td>1631</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	TRANS. NO.	TRANSFERS RELINQUISHED BY:	ACCEPTED BY:	DATE	TIME	1	Scott W. Vockell	K. Hawille	6/23/95	1631	2					3					4				
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3																									
4																									



Florida Department of Environmental Regulation

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

DER Form #	17-761.500(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: Naval Air Station - Cecil Field Telephone: ()
- Street Address (physical location): Naval Air Station - Cecil Field Housing Unit "M"
- Owner Name: U.S. Navy Telephone: ()
- Owner Address: Naval Air Station - Cecil Field
- Number of Tanks: a. Installed at this time _____ b. Removed at this time One
- Tank(s) Manufactured by: Unknown
- Date Work Initiated: 5/18/95 9. Date Work Completed: 5/19/95

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 overfill 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 (eg. 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.

DEA Form 17-761.50015
 Underground Storage Tank Installation & Removal Form for Certified Contractors
 Effective Date: December 10, 1990
 DEA Application No. _____
 Filed on by DEA: _____

Certification

I hereby certify and attest that I am familiar with the facility that is registered with the Florida Department of Environmental Regulation; that to the best of my knowledge and belief, the tank installation, replacement or removal at this facility was conducted in accordance with Chapter 489 and Section 376.303, Florida Statutes and Chapter 17-761, Florida Administrative Code (and its adopted reference sources from publications and standards of the National Fire Protection Association (NFPA), the American Petroleum Institute (API), the National Association of Corrosion Engineers (NACE), American Society for Testing and Materials (ASTM); Petroleum Equipment Institute (PEI); Steel Tank Institute (STI); Underwriters Laboratory (UL); and the tank and integral piping manufacturers' specifications; and that the operations on the checklist were performed accordingly.

Robert Boardman

(Type or Print)

Certified Pollutant Tank Contractor Name
 Pollutant Storage System Specialty Contractor License Number (PSSSC)

PCC 054952

PSSSC Number

[Signature]

Certified Tank Contractor Signature

7-12-95

Date

Vernon McHinnon

(Type or Print)
 Field Supervisor Name

7-12-95

Date

Vernon McHinnon

Field Supervisor Signature

7-12-95

Date

The owner or operator of the facility must register the tanks with the Department at least 10 days before the installation. The installer must submit this form no more than 30 days after the completion of installation to the Department of Environmental Regulation at the address printed at the top of page one.



INNOVATIVE SERVICES INTERNATIONAL, INC.

COMPLETED CLOSURE REPORTS:

ENLISTED HOUSING #400	ENLISTED HOUSING #429
ENLISTED HOUSING #401	ENLISTED HOUSING #430
ENLISTED HOUSING #402	ENLISTED HOUSING #431
ENLISTED HOUSING #403	ENLISTED HOUSING #432
ENLISTED HOUSING #404	ENLISTED HOUSING #433
ENLISTED HOUSING #405	ENLISTED HOUSING #434
ENLISTED HOUSING #406	ENLISTED HOUSING #435
ENLISTED HOUSING #407	ENLISTED HOUSING #436
ENLISTED HOUSING #408	ENLISTED HOUSING #437
ENLISTED HOUSING #412	ENLISTED HOUSING #438
ENLISTED HOUSING #413	ENLISTED HOUSING #439
ENLISTED HOUSING #414	ENLISTED HOUSING #440
ENLISTED HOUSING #415	ENLISTED HOUSING #441
ENLISTED HOUSING #416	OFFICER HOUSING UNIT "F"
ENLISTED HOUSING #417	OFFICER HOUSING UNIT "G"
ENLISTED HOUSING #418	OFFICER HOUSING UNIT "H"
ENLISTED HOUSING #419	OFFICER HOUSING UNIT "I"
ENLISTED HOUSING #420	OFFICER HOUSING UNIT "J"
ENLISTED HOUSING #421	OFFICER HOUSING UNIT "K"
ENLISTED HOUSING #422	OFFICER HOUSING UNIT "L"
ENLISTED HOUSING #423	OFFICER HOUSING UNIT "M"
ENLISTED HOUSING #424	OFFICER HOUSING UNIT "N"
ENLISTED HOUSING #425	OFFICER HOUSING UNIT "O"
ENLISTED HOUSING #426	OFFICER HOUSING UNIT "P"
ENLISTED HOUSING #427	OFFICER HOUSING UNIT "Q"
ENLISTED HOUSING #428	OFFICER HOUSING UNIT "R"