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NAS CECIL FIELD, FL  
5090.3a

CONFIRMATORY SAMPLING REPORT FOR BUILDING 800 TANK 800 BASE  
REALIGNMENT AND CLOSURE UNDERGROUND STORAGE TANK AND ABOVEGROUND  
STORAGE TANK GREY SITES NAS CECIL FIELD FL  
10/1/1997  
ABB ENVIRONMENTAL SERVICES INC

**CONFIRMATORY SAMPLING REPORT**

**BUILDING 800, TANK 800**

**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-0317/131**

**Prepared by:**

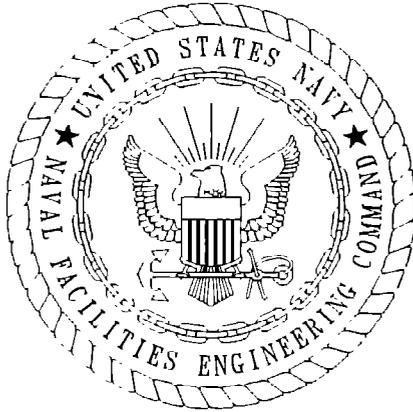
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**Prepared for:**

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**October 1997**



CERTIFICATION OF TECHNICAL  
DATA CONFORMITY (MAY 1987)

The Contractor, ABB Environmental Services, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/131 are complete and accurate and comply with all requirements of this contract.

DATE: October 28, 1997

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(DFAR 252.227-7036)

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## GLOSSARY

ABB-ES	ABB Environmental Services, Inc
BEI	Bechtel Environmental Incorporated
bls	below land surface
FAC	Florida Administrative Code
OVA	organic vapor analyzer
UST	underground storage tank

## 1.0 INTRODUCTION

ABB Environmental Services, Inc. (ABB-ES), under contract to the Southern Division, Naval Facilities Engineering Command, has completed the confirmatory sampling for Tank 800 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 800 was an underground storage tank (UST) located on the west side of Building 800, the memorial chapel (Figure 1). The UST, which was installed in 1966, had a 1,000-gallon capacity and was used to store fuel oil for onsite heating (ABB-ES, 1997). A Contamination Assessment Plan for the assessment of soil and groundwater at Tank 800 was prepared by ABB-ES in November 1996 (ABB-ES, 1996).

Tank 800 was removed by Bechtel Environmental, Inc. (BEI), on June 11, 1997. No soil was removed from the site. A Closure Report was prepared for Tank 800 and submitted to the Florida Department of Environmental Protection in July of 1997 (BEI, 1997).

## 2.0 FIELD INVESTIGATION

The confirmatory sampling at Tank 800 was initiated in January 1997 (before the UST was removed) and included

- the advancement of two soil borings to the water table,
- the installation of one shallow groundwater monitoring well, and
- collection and analysis of one groundwater sample.

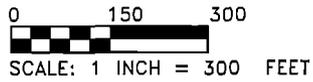
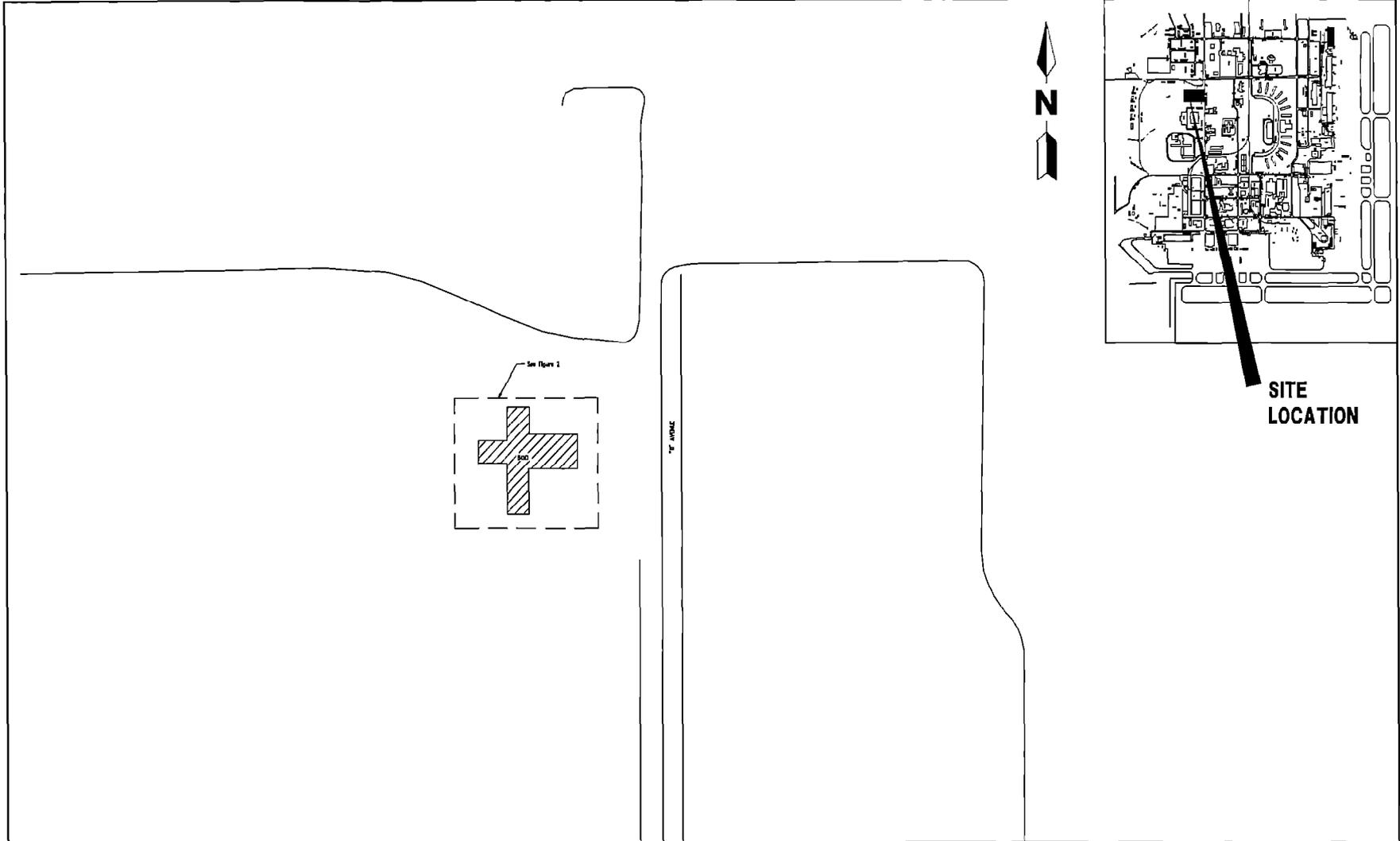
Soil samples were collected at depth intervals of 1-foot below land surface (bls) and every 2 feet thereafter to the water table. These samples were screened for hydrocarbon vapors with an organic vapor analyzer (OVA).

One monitoring well, CEF-800-1S, was installed south of the UST near the location of soil boring CEF-800-SB2 to a depth of 14 feet bls. One groundwater sample was collected on March 26, 1997, and analyzed for the Kerosene Analytical Group parameters. A general site plan indicating the location of the soil borings and monitoring well CEF-800-1S is presented on Figure 2. The monitoring well installation detail is included in Appendix A.

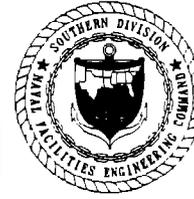
## 3.0 SCREENING AND ANALYTICAL RESULTS

Excessively contaminated soil was not detected in soil samples collected from the unsaturated zone during the confirmatory sampling and tank removal (BEI, 1997). The soil OVA data are summarized in Table 1 and presented on Figure 2.

Contaminant concentrations in groundwater were below the regulatory standards for Class G-II groundwater as specified in Chapter 62-770 of the Florida Administrative Code (FAC). The complete analytical data set is presented in Appendix B.



**FIGURE 1  
TANK 800  
MEMORIAL CHAPEL**

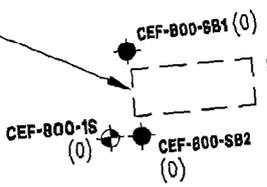


**CONFIRMATORY SAMPLING REPORT  
BUILDING 800, TANK 800**

**NAVAL AIR STATION CECIL FIELD  
JACKSONVILLE, FLORIDA**



1,000-gallon underground storage tank



800

**LEGEND**



CEF-800-16

Monitoring well location and designation



CEF-800-SB1

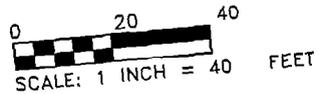
Soil boring location and designation

(0)

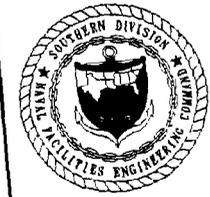
OVA reading in ppm

**NOTES**

OVA = Organic vapor analyzer  
ppm = parts per million



**FIGURE 2  
TANK 800  
SOIL BORING AND MONITORING WELL  
LOCATIONS**



**CONFIRMATORY SAMPLING REPORT  
BUILDING 800, TANK 800**

**NAVAL AIR STATION CECIL FIELD  
JACKSONVILLE, FLORIDA**

**Table 1**  
**Soil Screening Results**

Confirmatory Sampling Report  
Building 800, Tank 800  
Naval Air Station Cecil Field  
Jacksonville, Florida

Location	OVA Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Actual
CEF-800-SB1	1	0	--	0
	3	0	--	0
	5 (wet)	0	--	0
CEF-800-SB2	1	0	--	0
	3	0	--	0
	5 (wet)	0	--	0
CEF-800-1S	1	0	--	0
	3	0	--	0
	5 (wet)	60	--	60
	11 (wet)	0	--	0

Notes: All soil samples were collected on January 13, 1997.  
Monitoring well CEF-800-1S was installed on March 6, 1997.  
Soil samples were filtered with carbon to determine the methane concentration.

OVA = organic vapor analyzer.  
ppm = parts per million.  
bls = below land surface.  
wet = soil sample was completely saturated when analyzed.  
-- = filtered readings were not collected.

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

Data obtained during the confirmatory sampling at the Tank 800 site does not indicate the presence of contaminated soil. No contaminants were detected above regulatory standards specified in Chapter 62-770, FAC, in the groundwater sample collected from monitoring well CEF-800-1S. Therefore, No Further Action is recommended for the Tank 800 site.

## REFERENCES

- ABB Environmental Services, Inc. (ABB-ES). 1996. *Contamination Assessment Plan, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina (November).
- ABB-ES. 1997. *Base Realignment and Closure Tank Management Plan, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina (January).
- Bechtel Environmental Incorporated. 1997. DO #59: *Closure Report for Above Storage Tank/Underground Storage Tank Removals, Naval Air Station Cecil Field, Jacksonville, Florida*. (July).

**APPENDIX A**  
**MONITORING WELL INSTALLATION DETAIL**

TITLE: NAS Cecil Field		LOG of WELL: CEF-800-15	BORING NO. CEF-800-15
CLIENT: SOUTHDIVNAVFACENCOM			PROJECT NO: 8542-04
CONTRACTOR: GEOTEK		DATE STARTED: 3-6-97	COMPLTD: 3-6-97
METHOD: 0.25" HSA	CASE SIZE: 2"	SCREEN INT.: 4-14	PROTECTION LEVEL: D
TOC ELEV.: FEET.	MONITOR INST.: FID	TOT DPTH: 15 FEET.	DPTH TO $\nabla$ 6.15 FEET.
LOGGED BY: J Koch	WELL DEVELOPMENT DATE: 3-10-97		SITE: Building 800

DEPTH F. LABORATORY SAMPLE ID.	RECOVER SAMPLE	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLWS/6-IN	WELL DATA
			0 SILTY SAND: Light grey to black, fine grained, no petroleum odor.		SM	posthole	
			0 SILTY SAND: Medium grey to black, fine grained no petroleum odor.			posthole	
5	100%	60	0 SILTY SAND: Light grey to medium grey, fine grained, no petroleum odor.			1,1,1	
10	50%	0	0 SILTY SAND: Dark brown to black, fine grained, hard, no petroleum odor.			2,6,9,12	
15							
20							

**APPENDIX B**  
**GROUNDWATER ANALYTICAL DATA**

NAS CECIL FIELD -- TANK 800  
UST GREY ANALYTICAL PARAMETERS -- REPORT NO. 9398

Lab Sample Number:	B7C2701410	B7C2701410	
Site	BRACGREY	BRACGREY	
Locator	CEF8001S	CEF8001S	
Collect Date:	26-MAR-97	26-MAR-97	
	VALUE	QUAL UNITS	DL

BRACGREY ANALYTICAL PARAMETERS

	VALUE	QUAL UNITS	DL
1,1,1-Trichloroethane	1 U	ug/l	1
1,1,2,2-Tetrachloroethane	1 U	ug/l	1
1,1,2-Trichloroethane	1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/l	1
1,1-Dichloroethene	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
1,2-Dichloroethane	1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/l	1
1-Methylnaphthalene	2 U	ug/l	2
2-Methylnaphthalene	2 U	ug/l	2
Acenaphthene	2 U	ug/l	2
Acenaphthylene	2 U	ug/l	2
Anthracene	2 U	ug/l	2
Benzene	1 U	ug/l	1
Benzo (a) anthracene	.1 U	ug/l	.1
Benzo (a) pyrene	.1 U	ug/l	.1
Benzo (b) fluoranthene	.1 U	ug/l	.1
Benzo (g,h,i) perylene	.2 U	ug/l	.2
Benzo (k) fluoranthene	.15 U	ug/l	.15
Bromodichloromethane	1 U	ug/l	1
Bromoform	1 U	ug/l	1
Bromomethane	1 U	ug/l	1
Carbon tetrachloride	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1
Chloromethane	1 U	ug/l	1
Chloroform	1 U	ug/l	1
Chloromethane	1 U	ug/l	1
Chrysene	.1 U	ug/l	.1
Dibenzo (a,h) anthracene	.2 U	ug/l	.2
Dibromochloromethane	1 U	ug/l	1
Dichlorodifluoromethane	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1
Ethylene dibromide	.02 U	ug/l	.02
Fluoranthene	.2 U	ug/l	.2
Fluorene	2 U	ug/l	2
Indeno (1,2,3-cd) pyrene	.1 U	ug/l	.1
Lead	5 U	ug/l	5
Methyl tert-butyl ether	1 U	ug/l	1
Methylene chloride	2.5	ug/l	1
Naphthalene	2 U	ug/l	2
Phenanthrene	2 U	ug/l	2
Pyrene	.2 U	ug/l	.2
Tetrachloroethene	1 U	ug/l	1
Toluene	1 U	ug/l	1
Total petroleum hydrocarbons	.5 U	mg/l	.5
Trichloroethene	1 U	ug/l	1
Trichlorofluoromethane	1 U	ug/l	1
Vinyl chloride	1 U	ug/l	1

NAS CECIL FIELD -- TANK 800  
 UST GREY ANALYTICAL PARAMETERS -- REPORT NO. 9398

Lab Sample Number:	B7C2701410	B7C2701410
Site	BRACGREY	BRACGREY
Locator	CEF8001S	CEF8001S
Collect Date:	26-MAR-97	26-MAR-97

	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Xylenes (total)	1	U	ug/l	1	-			
cis-1,3-Dichloropropene	1	U	ug/l	1	-			
trans-1,2-Dichloroethene	1	U	ug/l	1	-			
trans-1,3-Dichloropropene	1	U	ug/l	1	-			
Lead-DISS	-				5	U	ug/l	5

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