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NAS CECIL FIELD, FL
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CONFIRMATORY SAMPLING REPORT FOR BUILDING 83 TANK G83 BASE REALIGNMENT
AND CLOSURE UNDERGROUND STORAGE TANK AND ABOVEGROUND STORAGE TANK
GREY SITES NAS CECIL FIELD FL
11/1/1997
ABB ENVIRONMENTAL SERVICES INC

CONFIRMATORY SAMPLING REPORT
BUILDING 83, TANK G83
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

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November 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: November 20, 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 G83 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 G83 was an underground storage tank (UST) located north of Building 83, which has been used to house electrical equipment since it was constructed in 1953 (ABB-ES, 1994) (Figure 1). The UST, which was installed in 1987, had a 1,000-gallon capacity and was used to store diesel fuel for the emergency generator that is under the roof extension to the building (ABB-ES, 1994). A Contamination Assessment Plan for the assessment of soil and groundwater at Tank G83 was prepared by ABB-ES in November 1996 (ABB-ES, 1996).

Tank G83 was removed by Bechtel Environmental, Incorporated (BEI), on April 30, 1997. No soil was removed from the site at that time. A Closure Report was prepared for Tank G83 and submitted to the Florida Department of Environmental Protection on July 1, 1997 (BEI, 1997).

2.0 FIELD INVESTIGATION

The confirmatory sampling at Tank G83 was initiated in January 1997 (before the UST was removed) and included

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

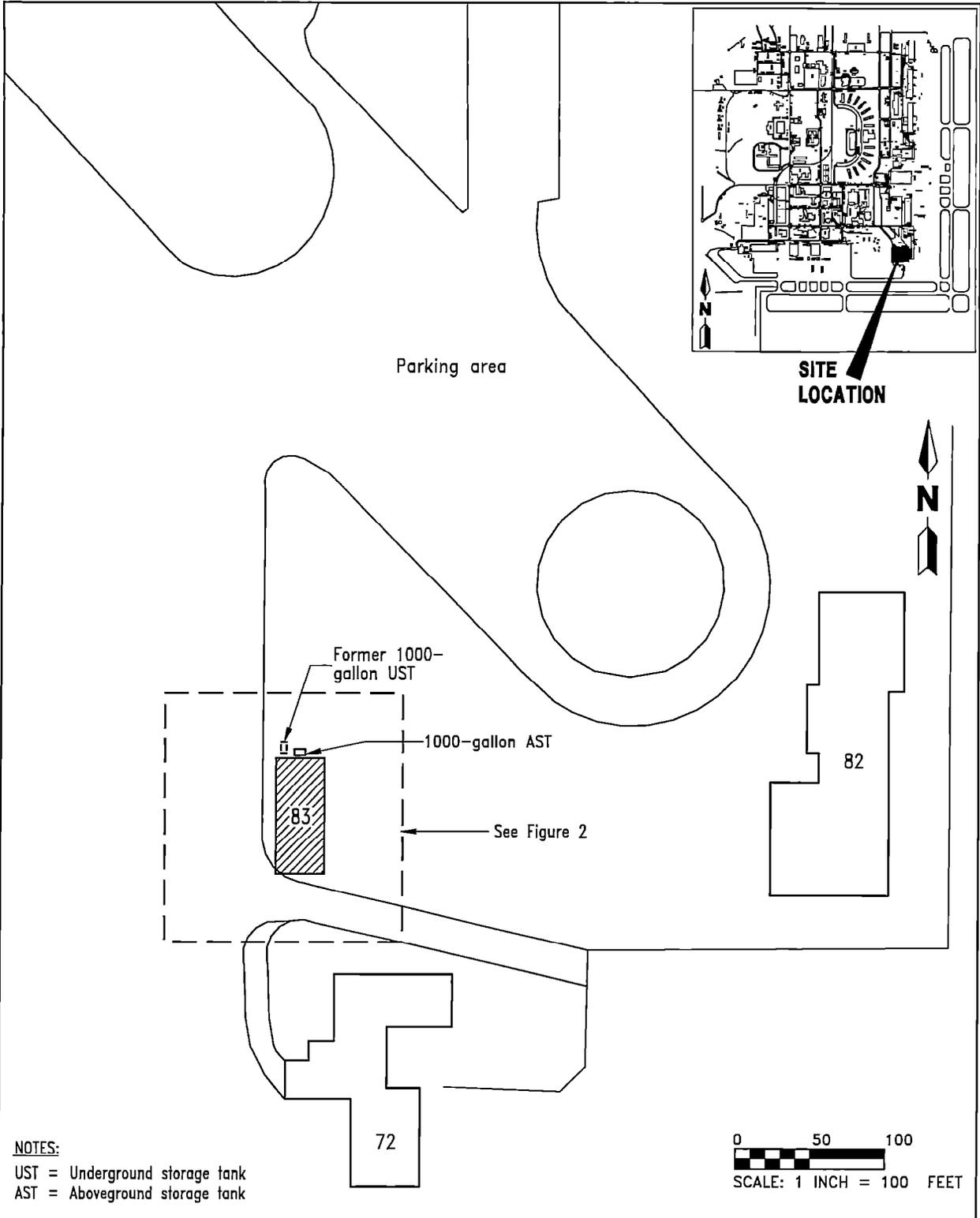
Soil samples were collected at depth intervals of 1 foot below land surface (bls) and every 2 feet thereafter to the water table. These samples were screened for hydrocarbon vapors with an organic vapor analyzer (OVA).

One monitoring well, CEF-83-1S, was installed east of the UST near the location of soil boring CEF-83-SB3 to a depth of 16 feet bls. One groundwater sample was collected on March 24, 1997, and analyzed for the Kerosene Analytical Group parameters. A general site plan indicating the location of the soil borings and monitoring well CEF-83-1S is presented as 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. The soil OVA data collected during the confirmatory sampling are summarized in Table 1 and presented on Figure 2.

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



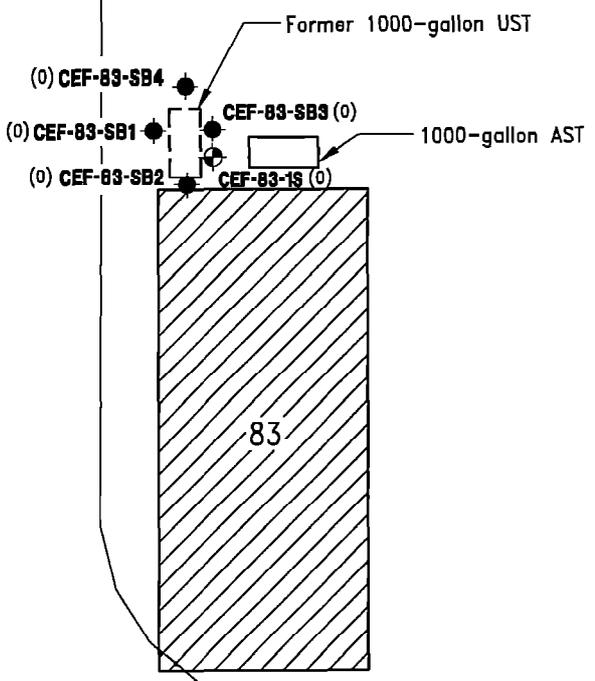
**FIGURE 1
 TANK G83**



**CONFIRMATORY SAMPLING REPORT
 BUILDING 83, TANK G83**

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

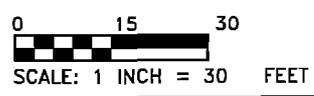
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NOTES:

- UST = Underground storage tank
- AST = Aboveground storage tank
- OVA = Organic vapor analyzer
- ppm = parts per million

LEGEND	
	CEF-83-1S Monitoring well location and designation
	CEF-83-SB2 Soil boring location and designation
(0)	OVA reading in ppm



**FIGURE 2
TANK G83
SOIL BORING AND MONITORING WELL LOCATIONS**



**CONFIRMATORY SAMPLING REPORT
BUILDING 83, TANK G83**

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

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Table 1
Soil Screening Results

Confirmatory Sampling Report
Building 83, Tank G83
Naval Air Station Cecil Field
Jacksonville, Florida

Location	OVA Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Actual
CEF-83-SB1	1	0	-	0
	3	0	--	0
	5	0	--	0
	7	0	-	0
	9 (wet)	0	-	0
CEF-83-SB2	1	0	-	0
	3	0	-	0
	5	0	-	0
	7	0	-	0
CEF-83-SB3	1	0	--	0
	3	0	--	0
	5	0	-	0
	7	0	-	0
CEF-83-SB4	1	0	-	0
	3	0	-	0
	5	0	-	0
	7	0	-	0
CEF-83-1S	1	0	-	0
	3	0	--	0
	6	0	-	0
	8	0	--	0
	14 (wet)	0	--	0

Notes: All soil samples were collected on January 15, 1997.
Monitoring well CEF-83-1S was installed on March 10, 1997.
Soil samples were filtered with carbon to determine the methane concentration.

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

4.0 CONCLUSIONS AND RECOMMENDATIONS

Data obtained during the confirmatory sampling at the Tank G83 site did 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-83-1S. Therefore, no further action is recommended for the Tank G83 site.

REFERENCES

- ABB Environmental Services, Inc. (ABB-ES). 1994. *Base Realignment and Closure Environmental Baseline Survey Report, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for Southern Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina (November).
- ABB-ES. 1996. *Contamination Assessment Plan, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina (November).
- Bechtel Environmental Incorporated. 1997. *DO #59: Closure Report for Aboveground Storage Tank/Underground Storage Tank Removals, Naval Air Station Cecil Field, Jacksonville, Florida* (July).

APPENDIX A
MONITORING WELL INSTALLATION DETAIL

PROJECT: NAS Cecil Field		LOG of WELL: CEF-83-IS	BORING NO. CEF-83-IS
CLIENT: SOUTHDIYNAVFACENGCOM	PROJECT NO: 8542-03	DATE STARTED: 3-10-97	COMPLETED: 3-10-97
DRILLING SUBCONTRACTOR: GEOTEK		SITE: Building 83	MONITOR INST. FID
METHOD: 6.25" HSA	WELL CASE DIAM.: 2"	SCREEN INT.: 4-14 FT.	SCREEN SLOT SIZE: D
TOC ELEVATION: FT. NGVD	GROUND ELEV.: FT. NGVD	NORTHING: 2141588	EASTING: 377848.4
WELL DEVELOP. DATE: 3-11-97	TOTAL DEPTH: 18 FT. BLS	DEPTH TO ∇ 7.78 FT. BLS	LOGGED BY: J Tarr

DEPTH FT.	SAMPLE INTERVAL RECOVERY HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
0		SILTY SAND: Grey to black, fine grain, no petroleum odor.		SM		
0		SILTY SAND: Light grey, fine grain, no petroleum odor.			posthole	
5	50%	SILTY SAND: Brown, hard pan, no petroleum odor.			2,5,4,10	
	50%	SILTY SAND: Brownish-orange, fine grain, no petroleum odor.			3,8,8,14	
10	50%	SILTY SAND: Brown, fine grain, saturated, no petroleum odor.			2,4,12	

APPENDIX B
GROUNDWATER ANALYTICAL DATA

NAS CECIL FIELD -- TANK G83
UST GREY ANALYTICAL PARAMETERS -- REPORT NO. 9415

Lab Sample Number: B7C2501210
Site: BRACGREY
Locator: CEF831S
Collect Date: 24-MAR-97

VALUE QUAL UNITS DL

Xylenes (total)	15	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

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

NAS CECIL FIELD -- TANK G83
 UST GREY ANALYTICAL PARAMETERS -- REPORT NO. 9415

Lab Sample Number: B7C2501210
 Site BRACGREY
 Locator CEF831S
 Collect Date: 24-MAR-97

VALUE QUAL UNITS DL

BRACGREY ANALYTICAL PARAMETERS

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	3.8	ug/l	2
2-Methylnaphthalene	4	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	2.4	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	1 U	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	1.7	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