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NAS CECIL FIELD, FL
5090.3a

CONFIRMATORY SAMPLING REPORT FOR BUILDING 905 TANK 905 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 905, TANK 905
BASE REALIGNMENT AND CLOSURE
UNDERGROUND STORAGE TANK AND
ABOVEGROUND STORAGE TANK GREY SITES
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Unit Identification Code: N60200

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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 11, 1997

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Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL: Eric A. Blomberg, P.G.
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Building 905, Tank 905
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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 905 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 905 was an underground storage tank (UST) located on the east side of Building 905, the Main Exchange (Figure 1). The UST, which was installed in 1978, had a 2,000-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 905 was prepared by ABB-ES in November 1996 (ABB-ES, 1996).

Tank 905 was removed by Bechtel Environmental, Inc. (BEI), on May 8, 1997. No soil was removed from the site at that time. A Closure Report was prepared for Tank 905 and submitted to the Florida Department of Environmental Protection (BEI, 1997).

2.0 FIELD INVESTIGATION

The confirmatory sampling at Tank 905 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.

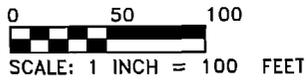
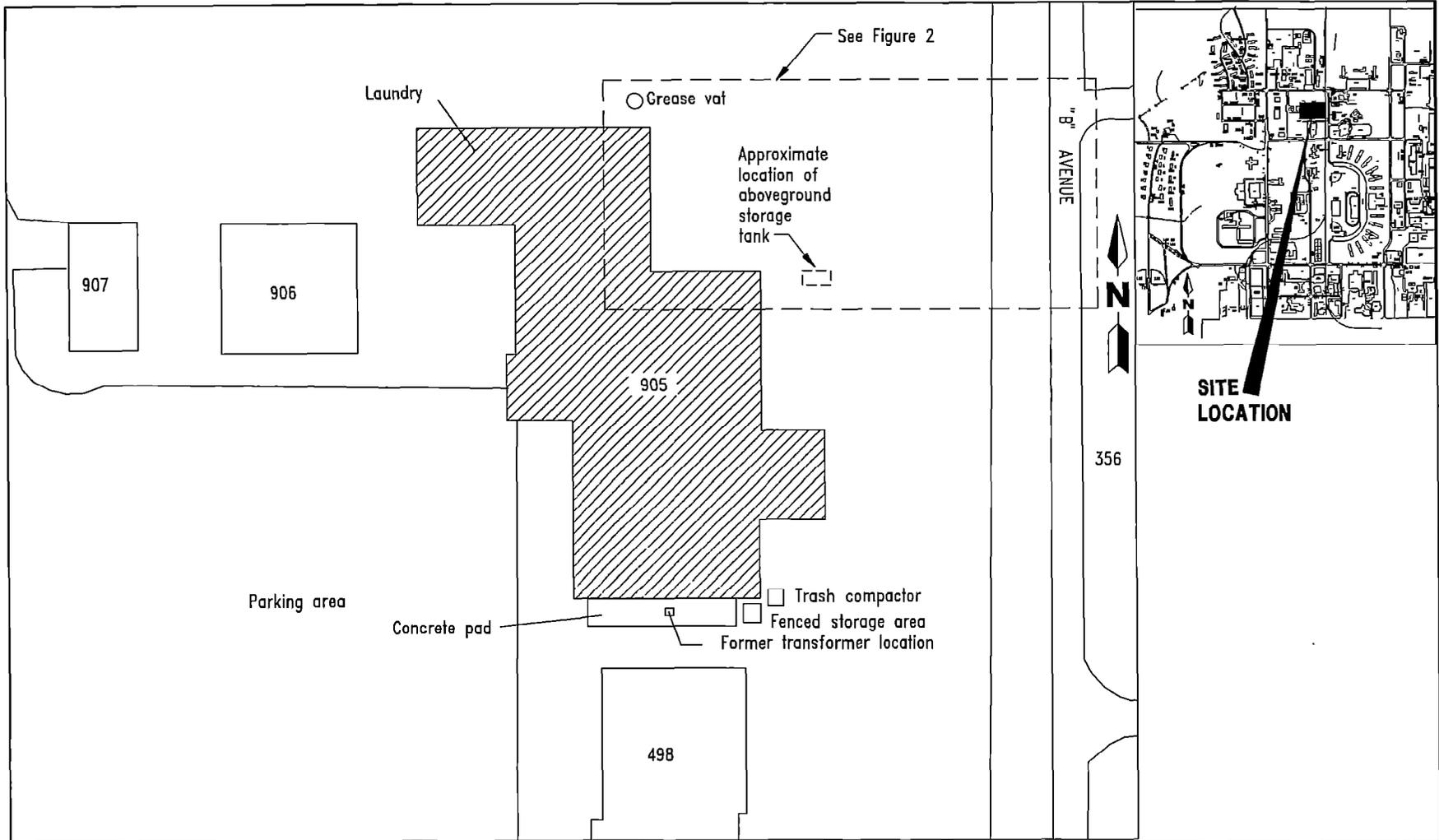
Soil samples were collected at depth intervals of 1 foot below land surface (bls) and every 2 feet thereafter to the water table. These samples were screened for hydrocarbon vapors with an organic vapor analyzer (OVA).

One monitoring well, CEF-905-1S, was installed east of the UST near the location of soil boring CEF-905-SB2 to a depth of 14 feet bls. One groundwater sample was collected on March 25, 1997, and analyzed for the Kerosene Analytical Group parameters. A general site plan indicating the location of the soil borings and monitoring well CEF-905-1S is presented on Figure 2. The monitoring well installation detail is included in Appendix A.

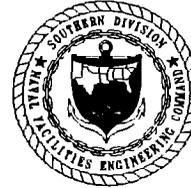
3.0 SCREENING AND ANALYTICAL RESULTS

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 specified in Chapter 62-770 of the Florida Administrative Code (FAC). The complete analytical data set is presented in Appendix B.



**FIGURE 1
TANK 905
MAIN EXCHANGE**



**CONFIRMATORY SAMPLING REPORT
BUILDING 905, TANK 905**

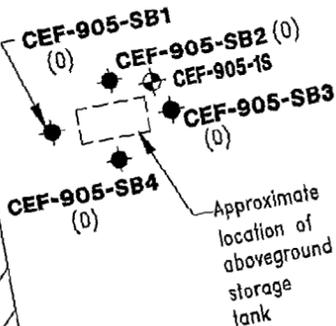
**NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA**

CE-8905.CSR
ASW.11.97

○ Grease vat



"B" AVENUE



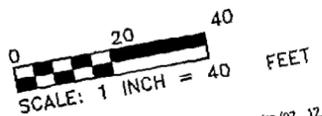
LEGEND

- CEF-905-1S Monitoring well location and designation
- CEF-905-SB4 Soil boring location and designation
- (0) Organic vapor analyzer reading in parts per million

**FIGURE 2
TANK 905
SOIL BORING AND MONITORING WELL LOCATIONS**



**CONFIRMATORY SAMPLING REPORT
BUILDING 905, TANK 905
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA**



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**Table 1
Soil Screening Results**

Confirmatory Sampling Report
Building 905, Tank 905
Naval Air Station Cecil Field
Jacksonville, Florida

Location	OVA Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Actual
CEF-905-SB1	1	0	--	0
	3	0	--	0
	4.5 (wet)	0	--	0
CEF-905-SB2	1	0	--	0
	3	0	--	0
	4.5 (wet)	0	--	0
CEF-905-SB3	1	0	--	0
	3	0	--	0
	4.5 (wet)	0	--	0
CEF-905-SB4	1	0	--	0
	3	0	--	0
	4.5	0	--	0
CEF-905-1S	1	0	--	0
	3	0	--	0
	5 (wet)	0	--	0
	11 (wet)	0	--	0

Notes: All soil samples were collected on January 13, 1997.
Monitoring well CEF-905-1S was installed on March 5, 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 completely saturated when analyzed.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Data obtained during the confirmatory sampling at the Tank 905 site do 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 GEF-905-1S. Therefore, no further action is recommended for the Tank 905 site.

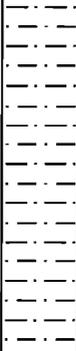
REFERENCES

- 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 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-905-IS	BORING NO. CEF-905-IS
CLIENT: SOUTHDIVNAVFACENGCOM	PROJECT NO: 8542-03	DATE STARTED: 3-5-97	COMPLETED: 3-5-97
DRILLING SUBCONTRACTOR: GEOTEK		SITE: Building 905	MONITOR INST. FID
METHOD: 8.25" HSA	WELL CASE DIAM.: 2"	SCREEN INT.: 3-13 FT.	SCREEN SLOT SIZE: D
TOC ELEVATION: FT. NGVD	GROUND ELEV.: FT. NGVD	NORTHING: 2145894	EASTING: 378085
WELL DEVELOP. DATE: 3-8-97	TOTAL DEPTH: 14 FT. BLS	DEPTH TO ∇ 8.72 FT. BLS	LOGGED BY: J kach

DEPTH FT.	SAMPLE INTERVAL RECOVERY HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
0		SILTY SAND: Dark brown, fine grain, no petroleum odor.		SM		posthole
0		SILTY SAND: Dark Brown, fine grain, no petroleum odor.		SM		posthole
5	60%	SILTY CLAYEY SAND: Dark brown to dark grey, 30% clay, saturated.		SC	11,12	
10	100%	CLAYEY SAND WITH SILT: Light brown to light grey, fine-grain, wet.		SC	22,22	

APPENDIX B
GROUNDWATER ANALYTICAL DATA

NAS CECIL FIELD -- TANK 905
 UST GREY ANALYTICAL PARAMETERS -- REPORT NO. 9456

Lab Sample Number:	B7C2601400	B7C2601400
Site	BRACGREY	BRACGREY
Locator	CEF9051S	CEF9051S
Collect Date:	25-MAR-97	25-MAR-97

VALUE	QUAL	UNITS	DL	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	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	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 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 905
 UST GREY ANALYTICAL PARAMETERS -- REPORT NO. 9456

Lab Sample Number:	B7C2601400	B7C2601400
Site	BRACGREY	BRACGREY
Locator	CEF9051S	CEF9051S
Collect Date:	25-MAR-97	25-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