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NAS CECIL FIELD, FL
5090.3a

CONFIRMATORY SAMPLING REPORT FOR BUILDING 216 TANK 216 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 216, TANK 216
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:

ABB Environmental Services, Inc.
2590 Executive Center Circle, East
Tallahassee, Florida 32301

Prepared for:

Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29418

Bryan Kizer, Code 1842, Engineer-in-Charge

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

NAME AND TITLE OF CERTIFYING OFFICIAL: Rao Angara
Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL: Eric A. Blomberg, P.G.
Project Technical Lead

(DFAR 252.227-7036)

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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
BEI	Bechtel Environmental, Inc.
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 216 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 216 was an underground storage tank (UST) located on the east side of Building 216. Building 216 houses three fire pumps and two air compressors used as support equipment for an aircraft hangar (ABB-ES, 1994) (Figure 1). The UST, which was installed in 1953, was constructed of steel. It had a 3,000-gallon capacity and was used to store gasoline to fuel the 180 horsepower fire pump engines (ABB-ES, 1994). A Contamination Assessment Plan for the assessment of soil and groundwater at Tank 216 was prepared by ABB-ES in November 1996 (ABB-ES, 1996).

Tank 216 was removed by Bechtel Environmental, Inc. (BEI), on April 30, 1997. No soil was removed at that time. A Closure Report was prepared for Tank 216 and submitted to the Florida Department of Environmental Protection on July 1, 1997 (BEI, 1997).

2.0 FIELD INVESTIGATION

The confirmatory sampling at Tank 216 was initiated in January 1997 (before the tank was removed) and included

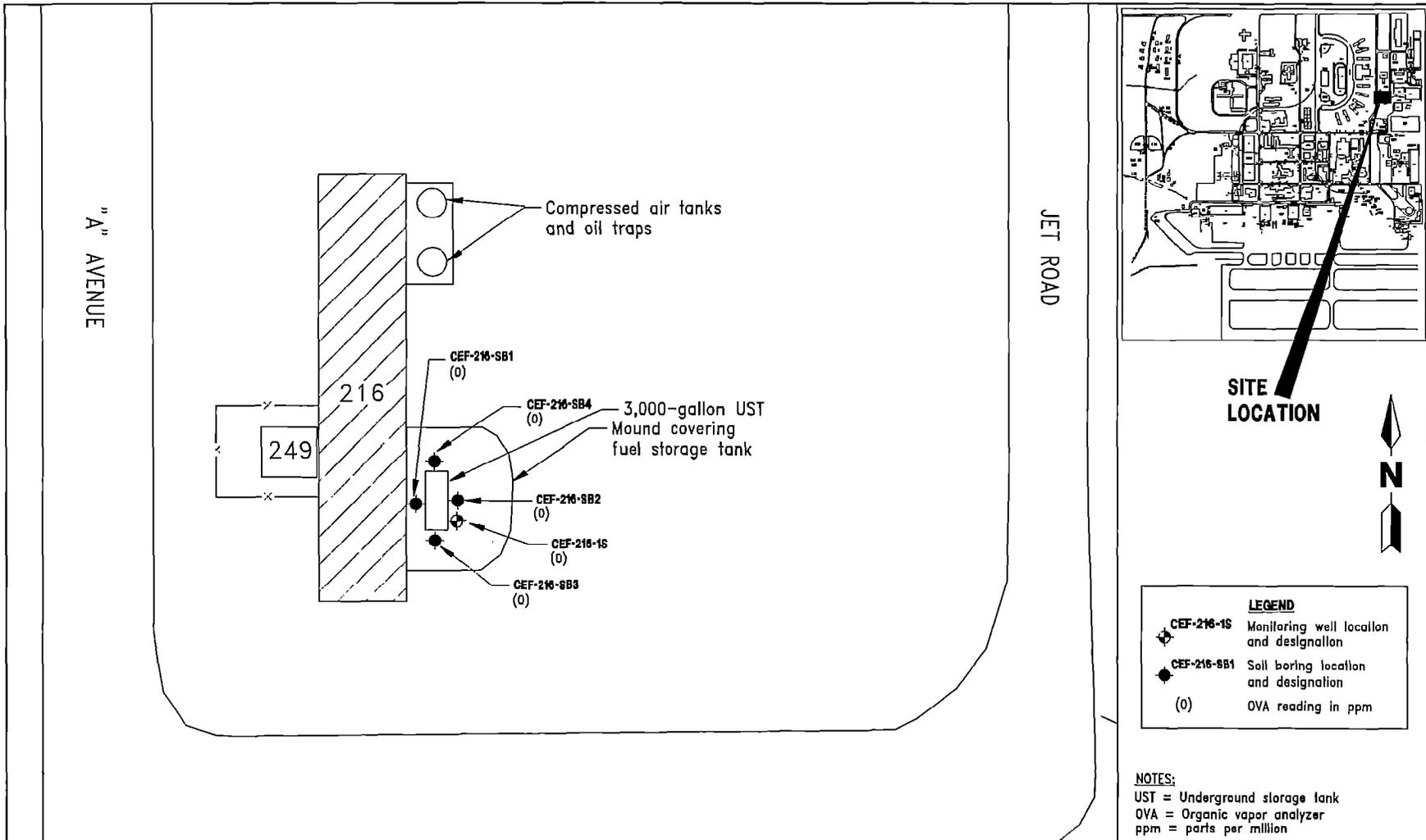
- the advancement of four soil borings to the water table,
- the installation of one shallow groundwater monitoring well, and
- collection and analysis of one groundwater sample.

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-216-1S, was installed southeast of the UST near the location of soil boring CEF-216-SB3 to a depth of 16 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-216-1S is presented as Figure 1. The monitoring well installation detail is included in Appendix A.

3.0 SCREENING AND ANALYTICAL RESULTS

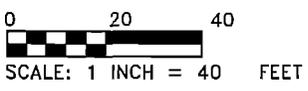
Excessively contaminated soil was not detected in soil samples collected from the unsaturated zone during the confirmatory sampling. The soil OVA data collected during the confirmatory sampling are summarized in Table 1 and presented on Figure 1.



LEGEND

- 
CEF-216-1S Monitoring well location and designation
- 
CEF-216-SB1 Soil boring location and designation
- (0) OVA reading in ppm

NOTES:
 UST = Underground storage tank
 OVA = Organic vapor analyzer
 ppm = parts per million



**FIGURE 1
 TANK 216
 SOIL BORING AND MONITORING WELL
 LOCATIONS**



**CONFIRMATORY SAMPLING REPORT
 BUILDING 216, TANK 216**

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

**Table 1
Soil Screening Results**

Confirmatory Sampling Report
Building 216, Tank 216
Naval Air Station Cecil Field
Jacksonville, Florida

Location	OVA Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Actual
CEF-216-SB1	1	0	--	0
	3	0	--	0
	5	0	--	0
	7	0	--	0
	9	0	--	0
	10 (wet)	0	--	0
CEF-216-SB2	1	0	--	0
	3	0	--	0
	5	0	--	0
	7	0	--	0
	9	0	--	0
	11 (moist)	0	--	0
CEF-216-SB3	1	0	--	0
	3	0	--	0
	5	0	--	0
	7 (wet)	0	--	0
CEF-216-SB4	1	0	--	0
	3	0	--	0
	5	0	--	0
	7 (moist)	0	--	0
	9 (wet)	0	--	0
CEF-216-1S	1	0	--	0
	3	0	--	0
	5	0	--	0
	11	0	--	0

Notes: All soil samples were collected on January 15, 1997.
Monitoring well CEF-216-1S 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.
-- = filtered readings were not collected.
wet = soil sample was completely saturated when analyzed.
moist = soil sample was partially saturated when analyzed.

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.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Data obtained during the confirmatory sampling at the Tank 216 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 GEF-216-1S. Therefore, no further action is recommended for the Tank 216 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 Division, 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, Inc. 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-216-IS	BORING NO. CEF-216-IS
CLIENT: SOUTHDIVNAVFACENGCOM	PROJECT NO: 8542-03	DATE STARTED: 3-8-97	COMPLETED: 3-8-97
DRILLING SUBCONTRACTOR: GEOTEK		SITE: Building 216	MONITOR INST. FID
METHOD: 8.25" HSA	WELL CASE DIAM.: 2"	SCREEN INT.: 5-15 FT.	SCREEN SLOT SIZE: D
TOC ELEVATION: FT. NGVD	GROUND ELEV.: FT. NGVD	NORTHING: 2143733	EASTING: 377390
WELL DEVELOP. DATE: 3-8-97	TOTAL DEPTH: 16 FT. BLS	DEPTH TO ∇ 11.73 FT. BLS	LOGGED BY: J Koch

DEPTH FT.	SAMPLE INTERVAL RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
0		0	SILTY SAND: Dark grey, fine grained, no petroleum odor.		SM		
0		0	SILTY SAND: Dark grey, fine grained, no petroleum odor.				
5	100%	0	SILTY SAND: Light brown, fine grained, no petroleum odor.			11,4,4	
10	100%	N/A	CLAYEY SAND: Light brown to light grey, fine grained, saturated, no petroleum odor.		SC	7,10,7,8	∇
15							
20							

APPENDIX B
GROUNDWATER ANALYTICAL DATA

NAS CECIL FIELD -- TANK 216
 UST GREY ANALYTICAL PARAMETERS -- REPORT NO. 9420

Lab Sample Number: B7C2601400
 Site BRACGREY
 Locator CEF2161S
 Collect Date: 25-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	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 216
UST GREY ANALYTICAL PARAMETERS -- REPORT NO. 9420

Lab Sample Number: B7C2601400
Site BRACGREY
Locator CEF2161S
Collect Date: 25-MAR-97

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

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