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NAS CECIL FIELD, FL
5090.3a

CONFIRMATORY SAMPLING REPORT FOR BUILDING 289A TANK G289-A BASE
REALIGNMENT AND CLOSURE UNDERGROUND STORAGE TANK AND ABOVEGROUND
STORAGE TANK GREY SITES NAS CECIL FIELD FL
4/1/1998
ABB ENVIRONMENTAL SERVICES INC

CONFIRMATORY SAMPLING REPORT
BUILDING 289A, TANK G289-A
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:

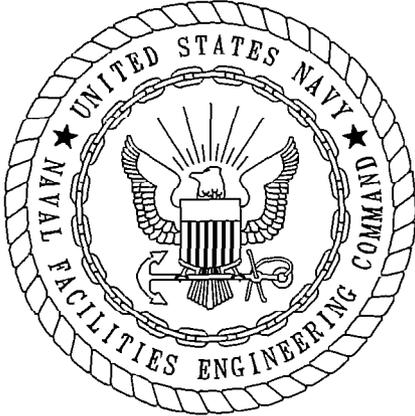
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April 1998



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: April 17, 1998

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(DFAR 252.227-7036)

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GLOSSARY

ABB-ES	ABB Environmental Services, Inc
AST	aboveground storage tank
bls	below land surface
FAC	Florida Administrative Code
OVA	organic vapor analyzer
ppm	parts per million

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 G289-A 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 G289-A is an aboveground storage tank (AST) located at Building 289-A, which is a standby generator building located southeast of the runways and adjacent to Building 289. The AST, which was installed in 1996, has a 250-gallon capacity and is used to store diesel fuel for an emergency generator (ABB-ES, 1997). A Contamination Assessment Plan for the assessment of soil and groundwater at tank G289-A was prepared by ABB-ES in November 1996 (ABB-ES, 1996).

2.0 FIELD INVESTIGATION

The confirmatory sampling for Tank G289-A was initiated in January 1997 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.

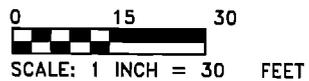
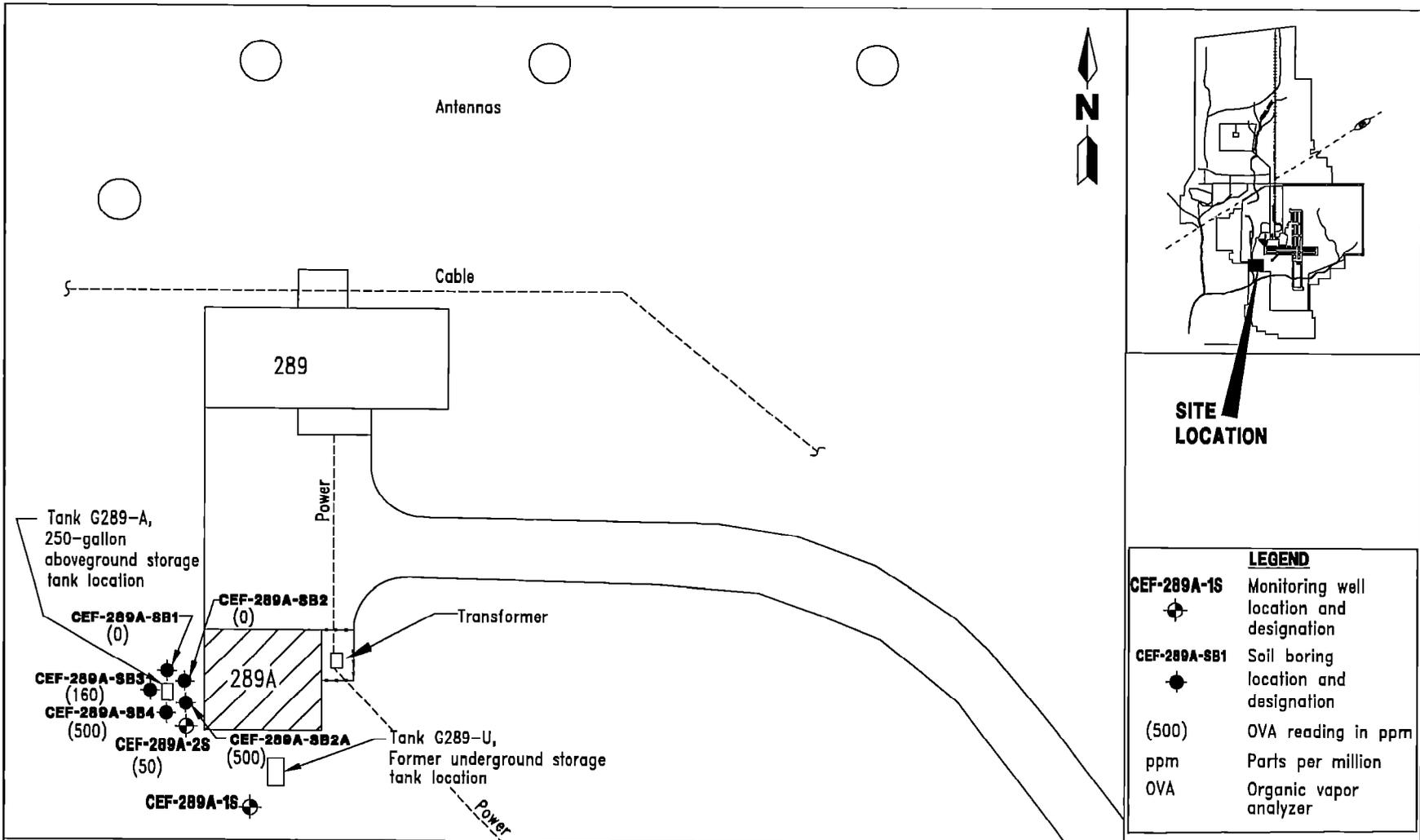
Soil samples were collected from each boring at depth intervals of 1 foot below land surface (bls) and every 2 feet thereafter to the water table. These samples were screened for hydrocarbon vapors with an organic vapor analyzer (OVA).

A monitoring well, CEF-289A-1S, was installed south of the AST near the location of soil boring CEF-289A-SB4 to a depth of 13 feet bls. One groundwater sample was collected from the well and analyzed for the Kerosene Analytical Group parameters. A general site plan indicating the location of the soil borings and the monitoring well is presented on Figure 1. The monitoring well installation detail is included in Appendix A.

3.0 SCREENING AND ANALYTICAL RESULTS

Excessively contaminated soil (greater than 50 parts per million [ppm] on an OVA) was detected in three of four soil borings. The highest OVA reading (1,900 ppm) was detected at 1 foot bls during the installation of monitoring well CEF-289A-1S. The soil OVA data are summarized in Table 1 and presented on Figure 1.

Groundwater contamination was not detected at concentrations exceeding requirements specified in Chapter 62-770 of the Florida Administrative Code (FAC). The complete analytical data set is presented in Appendix B.



**FIGURE 1
TANK G289-A
SOIL BORING AND MONITORING WELL LOCATIONS**



**CONFIRMATORY SAMPLING REPORT
BUILDING 289A, TANK G289-A**

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

**Table 1
Soil Screening Results**

Confirmatory Sampling Report
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Naval Air Station Cecil Field
Jacksonville, Florida

Location	OVA Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Actual
CEF-289A-SB1	1	0	--	0
	3	0	--	0
	4.5 (wet)	0	--	0
CEF-289A-SB2	1 (refusal)	0	--	0
CEF-289A-SB2A	3	500	0	500
	4.5	150	0	150
CEF-289A-SB3	1	390	0	390
	3	160	0	160
	4.5 (wet)	120	0	120
CEF-289A-SB4	1	70	0	70
	3	500	0	500
	4.5 (wet)	320	0	320
CEF-289A-1S	1	1,900	--	1,900
	3	70	--	70
	5 (wet)	100	--	100
	11 (wet)	31	--	31

Notes: All soil samples were collected on January 31, 1997.
Monitoring well CEF-289A-1S was installed on February 26, 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.

refusal = subsurface obstruction encountered during boring advancement; no further samples collected at this location.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Data obtained during the confirmatory sampling at the Tank G289-A site did not provide an adequate assessment of the horizontal and vertical extent of excessively contaminated soil.

No contaminants were detected above the regulatory standard specified in Chapter 62-770, FAC, in the groundwater sample collected from monitoring well CEF-289A-1S.

It is recommended that additional confirmatory sampling be conducted to assess the extent of excessively contaminated soil at the Tank G289-A 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 (SOUTHNAVFACENGCOC), North Charleston, South Carolina (November).

ABB-ES. 1997. *Base Realignment and Closure Tank Management Plan, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOC, North Charleston, South Carolina (January).

APPENDIX A
MONITORING WELL INSTALLATION DETAIL

TITLE: NAS Cecil Field		LOG of WELL: CEF-289A-2S	BORING NO. CEF-289A-2S
CLIENT: SOUTHDIVNAVFACENGCOM			PROJECT NO: 8542-03
CONTRACTOR: GEOTEK		DATE STARTED: 2-26-97	COMPLTD: 2-26-97
METHOD: 6.25" HSA	CASE SIZE: 2"	SCREEN INT.: 2-12	PROTECTION LEVEL: D
TOC ELEV.: FEET.	MONITOR INST.: FID	TOT DPTH: 13 FEET.	DPTH TO ∇ 2.00 FEET.
LOGGED BY: J Koch	WELL DEVELOPMENT DATE: 3-3-97		SITE: Building 289

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
50				SILTY SAND: Brown to dark grey, fine grain, no apparent petroleum odor.		SM	posthole	
8			SILTY SAND: Brown to dark grey, fine grain, no apparent petroleum odor.	posthole				
80		25%	SILTY SAND: Light grey to dark grey, fine grain, rotten egg odor (sulfur), saturated.	1,8,8,11				
16		60%	SILTY SAND: Light brown to dark grey, fine grain with traces of wood, rotten egg odor (sulfur), saturated.	1,2,7,8				

APPENDIX B
GROUNDWATER ANALYTICAL DATA

NAS CECIL FIELD -- TANK G289A
UST GREY ANALYTICAL PARAMETERS -- REPORT NO. 9488

Lab Sample Number:	B7C2201010	B7C2201010	
Site	BRACGREY	BRACGREY	
Locator	CEF289A2S	CEF289A2S	
Collect Date:	21-MAR-97	21-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	1.1	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	6.4	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 G289A
 UST GREY ANALYTICAL PARAMETERS -- REPORT NO. 9488

Lab Sample Number:	B7C2201010		B7C2201010	
Site	BRACGREY		BRACGREY	
Locator	CEF289A2S		CEF289A2S	
Collect Date:	21-MAR-97		21-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