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NAS CECIL FIELD  
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CONTAMINATION ASSESSMENT PLAN BASE FAMILY HOUSING AND 22 BASE  
REALIGNMENT AND CLOSURE TANK SITES NAS CECIL FIELD FL  
5/1/1997  
ABB ENVIRONMENTAL

**CONTAMINATION ASSESSMENT PLAN  
BASE FAMILY HOUSING AND 22 BASE REALIGNMENT  
AND CLOSURE TANK SITES**

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

**Unit Identification Code: N60200**

**Contract No.: N62467-89-D-0317/139**

**Prepared by:**

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

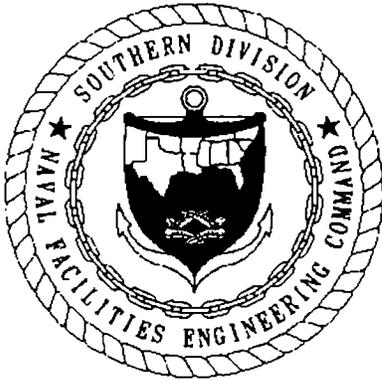
**Prepared for:**

**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**

**May 1997**





## FOREWORD

To meet its mission objectives, the U.S. Navy performs a variety of operations, some requiring the use, handling, storage, or disposal of hazardous materials. Through accidental spills and leaks and conventional methods of past disposal, hazardous materials may have entered the environment in ways unacceptable by today's standards. With growing knowledge of the long-term effects of hazardous materials on the environment, the Department of Defense initiated various programs to investigate and remediate conditions related to suspected past releases of hazardous materials at their facilities.

One of these programs is the Comprehensive Long-Term Environmental Action, Navy Underground Storage Tank (UST) program. This program complies with Subtitle I of the Resource Conservation and Recovery Act and the Hazardous and Solid Waste Amendment of 1984. In addition, the UST program complies with all appropriate State and local storage tank regulations as they pertain to each naval facility.

The UST program includes the following activities:

- registration and management of Navy and Marine Corps storage tank systems,
- contamination assessment planning,
- site field investigations,
- preparation of contamination assessment reports,
- remedial (corrective) action planning,
- implementation of the remedial action plans, and
- tank and pipeline closures.

TABLE OF CONTENTS

Contamination Assessment Plan  
Base Family Housing and 22 Base Realignment and Closure Tank Sites  
Naval Air Station Cecil Field, Jacksonville, Florida

<u>Chapter</u>	<u>Title</u>	<u>Page No.</u>
1.0	INTRODUCTION . . . . .	1
2.0	SITE DESCRIPTION AND HISTORY . . . . .	1
3.0	FIELD INVESTIGATION . . . . .	1
4.0	REPORT WRITING . . . . .	4

REFERENCES

APPENDIX

Appendix A: Site-Specific Health and Safety Plan for Contamination Assessment of Base Family Housing and 22 BRAC Tank Sites

## GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
AST	
BRAC	base realignment and closure
CA	contamination assessment
CAP	contamination assessment plan
CAR	contamination assessment report
NAS	Naval Air Station
PCAR	preliminary contamination assessment report
UST	underground storage tank

# CONTAMINATION ASSESSMENT PLAN - BASE FAMILY HOUSING AND 22 BASE REALIGNMENT AND CLOSURE (BRAC) TANK SITES

## 1.0 INTRODUCTION

ABB Environmental Services, Inc. (ABB-ES), has been contracted by Southern Division, Naval Facilities Engineering Command to prepare a contamination assessment plan (CAP) and a health and safety plan for the Base Family Housing sites and 22 BRAC tank sites at U.S. Naval Air Station (NAS) Cecil Field, Jacksonville, Florida. The Base Family Housing sites did not receive a clean closure report, and the objective of this investigation is to determine the extent of contamination at each site. An initial assessment will be performed at each of the 22 BRAC tank sites where the tank has been removed and the site did not receive a clean closure.

The Base Family Housing and 22 BRAC tank sites are listed in Table 1. The sites are located throughout NAS Cecil Field. The CAP outlines a strategy for the contamination assessment (CA) field investigation and sampling program that will identify any release of petroleum products from the underground storage tanks (USTs) and aboveground storage tank. The CAP includes a list of sites to be investigated, proposed field investigation and methodologies, and a health and safety plan.

Tank numbers 340, GEN-2, and G558 were included in the original scope of work but were subsequently deleted from the scope because clean closure reports were obtained from the installation or the tank is located in an area of an ongoing contamination assessment. Three tank locations, two at Building 9 and one at Building 72, will be investigated in their place.

## 2.0 SITE DESCRIPTION AND HISTORY

A list of the sites with site-specific tank information is presented in Table 1. Due to the large number of tanks, individual site descriptions and histories will not be presented. Tanks locations and more detailed construction and installation information can be found in the NAS Cecil Field Tank Management Plan (ABB-ES, 1997).

## 3.0 FIELD INVESTIGATION

A field investigation will be conducted at each site to assess the presence of petroleum contamination in soil and groundwater (if necessary). The number of soil borings and monitoring wells to be installed at each Base Family Housing site was predetermined in a teleconference between the FDEP, Navy, and ABB-ES representatives on February 13, 1997. Investigations at the 22 BRAC tank sites will be conducted following the protocols presented in the NAS Cecil Field Tank Management Plan (ABB-ES, 1997). Based on the tank capacity, one to five soil borings will be completed at each site to assess the presence of petroleum-contaminated soil. If excessively contaminated soil is detected or the UST is in contact with the groundwater, a temporary monitoring well will be installed at the site to assess the presence of groundwater contamination.

**Table 1 (Continued)**  
**Underground Storage Tank and Aboveground Storage Tank Sites Summary**

Contamination Assessment Plan  
 Base Family Housing and 22 Base Realignment and Tank Sites  
 Naval Air Station Cecil Field, Jacksonville, Florida

Tank Number	Building	Facility	Location (TMP Figure) <sup>1</sup>	Year Installed	Year Removed	Tank Contents	Tank Capacity (Gallons)	UST/AST
<b>Other Tank Sites (Continued)</b>								
81-B	81	Transportation	C-7	1945	1990	D	2,000	A
81-C	81	Transportation	C-7	1945	1990	D	3,000	A
98-1	98	Storage Building	C-7	1956	1989	B	150	A
98-2	98	Storage Building	C-7	1956	1989	B	150	A
98-3	98	Storage Building	C-7	UNK	1989	D	150	A
98-4	98	Storage Building	C-7	UNK	1989	O	55	A
288A	288	Standby Generator Building	C-5	UNK	UNK	G	250	A
352-1	352	Weather Shelter	C-9	1987	UNK	L	5,000	A
384	384	Transportation	C-7	1987	UNK	O	275	A
950	950	Traffic Safety Building	C-14	UNK	UNK	K	150	A
G-15	15	Wastewater Treatment Control Building	C-6	1983	1996	G	2,000	U
G-193	193	Standby Generator for Runway	C-12	1981	1995	G	250	U
G327-U	327	Security	C-14	UNK	1995	G	1,000	U

<sup>1</sup> Former location of ASTs and USTs can be found in the Naval Air Station Cecil Field Tank Management Plan (ABB-ES, 1996).

Notes: TMP = Tank Management Plan.

UST = underground storage tank.

AST = aboveground storage tank.

M = fuel/oil.

U = underground storage tank.

UNK = unknown.

D = vehicular gasoline.

A = leaded gasoline.

B = unleaded gasoline.

A = aboveground storage tank.

O = new/lube oil.

G = diesel.

CPO = Chief Petty Officer.

L = waste oil.

K = kerosene.

REFERENCE

ABB Environmental Services, Inc. 1997. *Base Realignment and Closure Tank Management Plan, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for Southern Division, Naval Facilities Engineering Command, Charleston, South Carolina (January).

Southern Division, Naval Facilities Engineering Command. 1997. *Monitoring Well Design, Installation, Construction, and Development Guidelines*. North Charleston, South Carolina (March).

**APPENDIX A**

**SITE-SPECIFIC HEALTH AND SAFETY PLAN  
FOR CONTAMINATION ASSESSMENT OF BASE FAMILY HOUSING AND  
22 BRAC TANK SITES**



8571-0001

May 12, 1997

Commanding Officer  
Souther Division Naval Facilities Engineering Command  
1255 Eagle Drive  
North Charleston, SC 29418  
Attention: Mr. Bryan Kizer, Code 1842

**Subject: Contamination Assessment Plan  
Base Family Housing and 22 Miscellaneous Tank Sites  
NAS Cecil Field, Jacksonville, Florida  
Contract No. N62467-89-D-0317/139**

Dear Bryan:

Attached please find two copies of the Contamination Assessment Plan (CAP) for the Base Family Housing and the 22 Miscellaneous tank sites located at Naval Air Station (NAS) Cecil Field, Jacksonville, Florida. The health and safety plan has been included as an attachment to the CAP. Two copies of the subject document have also been provided to Mr. Dave Kruzicki, NAS Cecil Field.

If you have any questions or comments please call me at 904-656-1293 (x 314).  
Thank you.

Very truly yours,

ABB ENVIRONMENTAL SERVICES, INC.

  
Rao Angara  
Task Order Manager

cc: David Kruzicki, NASCF  
File

Sponsor  
Special Olympics  
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ABB Environmental Services Inc.

Berkeley Building  
2590 Executive Center Circle East  
Tallahassee, Florida 32301

Telephone (904) 656-1293  
Fax (904) 877-0742