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NAS CECIL FIELD
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SAMPLING AND ANALYSIS OUTLINE BUILDING 216 AND 249 BASE REALIGNMENT AND
CLOSURE ZONE D INDUSTRIAL AND FLIGHTLINE AREA GROUP III NAS CECIL FIELD FL
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ABB ENVIRONMENTAL

SAMPLING AND ANALYSIS OUTLINE

**BUILDINGS 216 and 249
BASE REALIGNMENT AND CLOSURE
ZONE D, INDUSTRIAL AND FLIGHTLINE AREA
GROUP III**

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

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Prepared by:

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

Prepared For:

**Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29419**

Steve Wilson, Code 18B9, BRAC Environmental Coordinator

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Naval Air Station, Cecil Field
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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
BRAC	Base Realignment and Closure
CLP	Contract Laboratory Program
DQO	data quality objective
EBS	Environmental Baseline Survey
NAS	Naval Air Station
PCB	polychlorinated biphenyl
SAO	Sampling and Analysis Outline
TAL	target analyte list
TCL	target compound list
UST	underground storage tank

1.0 SITE DESCRIPTION

This Base Realignment and Closure (BRAC) Phase II Sampling and Analysis Outline (SAO) briefly describes and proposes a plan for assessment of Buildings 216 and 249, located west of the north to south flightline at the Main Base, Naval Air Station (NAS) Cecil Field. Buildings 216 and 249 are referenced in the NAS Cecil Field *Environmental Baseline Survey* (EBS) (ABB Environmental Services, Inc. [ABB-ES], 1994a) as the Fire Pump/Air Compressor Buildings for Hangar 67. The facilities are located between Avenue A and Jet Road, outside of the restricted flightline area (Figure 1).

Building 216 houses the pumps and air compressors that support the flightline fire protection systems. In addition to three fire pumps and two air compressors, equipment inside Building 216 includes four gasoline motors, two large battery banks, and four oil switches (numbered 416E, 416F, 416G, and 416H).

Based on information in the *Tank Management Plan* (ABB-ES, in press) a bermed, 3,000-gallon capacity steel fuel oil underground storage tank (UST) is located outside the east wall of Building 216 (Figure 1). EBS Appendix C, the Underground Storage Tank Inventory, lists a 1,000-gallon capacity gasoline tank in association with Building 216, but this is believed to be an error. Two large compressed air tanks and associated oil traps are located outside the northeast corner of Building 216 (Figure 1), suspended from the building wall. Piping from the oil traps appears to direct overflow from each trap to open drains in the ground between the concrete pad and outer wall of the building.

Building 249 consists of fenced area enclosing a transformer and electrical switching equipment on concrete pads (Figure 1) located outside west of Building 216.

2.0 ENVIRONMENTAL BASELINE SURVEY COLOR DESIGNATION

Building 216 was color-coded Grey in the EBS because of the 3,000-gallon capacity UST, heavy black tar-like stains in surface soil where apparent overflows from the oil trap drains had collected, and the presence of oily stains near three oil switches inside. Building 249 was color-coded Grey in the EBS due to oily stains outside on the concrete pad beneath the transformer switches.

During a site walkover in December 1994, oily stains were observed on the concrete pad under and around the transformer at the 249 facility. No stressed vegetation was observed around the UST fill pipe.

The Base Public Works Department *Oil-filled Electrical Equipment Distribution Inventory* (1993a) was checked to determine if the transformer or oil switches contain polychlorinated biphenyl (PCB) -contaminated dielectric fluids. The oil switches inside Building 216 are not on the inventory. The dielectric fluid in the oil switches and transformer at Building 249 are listed as unknown.

3.0 RECOMMENDATIONS

Completion of the following program is recommended to assess the presence or absence of residual contamination in surface soil and on concrete surfaces at Buildings 216/249. To evaluate surface soil conditions for the contaminants that may have been released from this facility, the full Contract Laboratory Program (CLP) suite of target compound list (TCL) organics and target analyte list (TAL) inorganics is recommended. At the areas where the presence of dielectric fluid containing polychlorinated biphenyls (PCBs) is suspected, analysis of TCL PCB wipe samples is recommended.

To meet a potential need for input to a Preliminary Risk Evaluation (PRE) if surface soil or exposed concrete surfaces are contaminated, the recommended analytical level to meet the data quality objective (DQO) for this site is Level IV with CLP deliverables.

Applicable sample collection techniques, quality assurance objectives, quality control requirements, and sample handling and shipping procedures are outlined in the BRAC NAS Cecil Field *Project Operations Plan* (ABB-ES, 1994b). Proposed sampling locations are shown on Figure 1.

3.1 Surface Soil To assess a potentially contaminated area near the northeast corner of the building where the surface soil is stained by heavy residues, apparently from the oil trap overflow drains, three surface soil grab samples will be collected from a depth of 0 to 1 foot below land surface (see Figure 1) and analyzed for TCL organics and TAL inorganics.

Within the fenced area at the 249 facility, three additional surface soil grab samples will be obtained from the area around the transformer and switches (Figure 1). These samples will be analyzed for TCL PCBs.

3.2 Surface Wipe Samples Inside Building 216, three PCB wipe samples will be obtained near the three oil switches that appear to be leaking (Figure 1). These samples will be analyzed for TCL PCBs.

The results of analysis, a contamination assessment, and recommendations for reclassification of the property will be reported in a draft Site Summary report for Buildings 216/249. The project team will seek concurrence from the BRAC Cleanup Team before completing a PRE and submitting a final Site Summary report.

The Underground Storage Tank Inventory in Appendix C of the EBS lists the status of the UST as "appears inactive", and the NAS Cecil Field *Tank Management Plan* (ABB-ES, in press) UST inventory lists this tank as slated for removal. It is recommended that re-evaluation of the color code for Building 216/249 be postponed until this UST is removed and tank closure documentation is completed.

It is further recommended that the piping from the oil traps be modified so that the oily overflow effluent is not discharged to the ground or to drains that open to the ground.

4.0 SELECTED REFERENCES

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