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NAS CECIL FIELD, FL  
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FACT SHEET 17 PROPOSED REMEDIAL ACTIONS FOR OPERABLE UNIT 3 (OU 3) SITE 7  
NAS CECIL FIELD FL  
10/1/1997  
ABB ENVIRONMENTAL SERVICES INC

# Naval Air Station Cecil Field

Installation Restoration Program



October 1997

NAS Cecil Field Administrative Record  
Document Index Number

## Fact Sheet 17: Proposed Remedial Actions for Site 7

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### Introduction

This fact sheet summarizes the Proposed Plan for Site 7, the Former Firefighting Training Area, at Naval Air Station (NAS) Cecil Field. The Proposed Plan for Site 7 summarizes remedial alternatives that may be used to remove or control contamination at the site. It also identifies the preferred alternatives for remedial action. The Proposed Plan for Site 7 recommends excavating and disposing of contaminated soil and monitoring groundwater. A comment period, where interested citizens can review and comment on the Proposed Plan for Site 7, will be held from October 28 through November 28, 1997 (see page 3 for more details).

The remedial strategy for Site 7 was developed by the U.S. Navy, the U.S. Environmental Protection Agency (USEPA), and the Florida Department of Environmental Protection (FDEP), in consultation with the NAS Cecil Field Restoration Advisory Board (RAB). These agencies will select the final remedy for Site 7 after all public comments have been addressed.

### Site History

Site 7, the Old Firefighting Training Area, is a part of Operable Unit (OU) 3 at NAS Cecil Field. The site is located east of Lake Fretwell (see Figure 1). From the 1950s through the mid-1970s, flammable liquids were placed on the flight line and ignited. Firefighting personnel would then practice putting out the fire. Flammable material used in these exercises included waste paints, paint thinner, spent solvents, petroleum oil, and lubricant wastes. Today, Site 7 is used as an ordnance storage area. ■

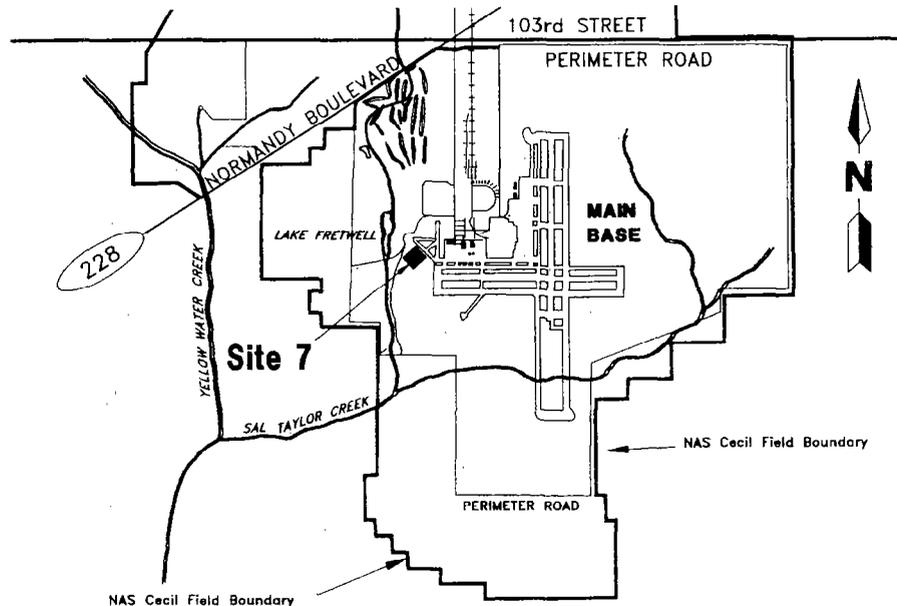


Figure 1. Site Location Map

*Environmental Update, Fact Sheet 17, is one in a series developed to inform interested citizens about the Installation Restoration (IR) program being conducted at NAS Cecil Field. Distribution is coordinated through the Public Affairs Office, (904) 778-6055.*

# Environmental Investigations



The recommendations in the Proposed Plan for Site 7 are based on the findings of studies listed below. For more information, all reports and documents for Site 7 are available for review in the Information Repository (see page 3).

## Initial Assessment Study

An initial assessment study (IAS) was completed in 1985. This study identified Site 7 as one of 18 sites at NAS Cecil Field needing further investigation.

## Resource Conservation and Recovery Act Facility Investigation

A Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI), completed in 1988, indicated the presence of metals (chromium and lead) and benzene in groundwater above levels allowed by Federal and State regulations. The study also indicated the presence of methylene chloride, cadmium, and lead in surface soil, also above allowed levels. Based on the RFI results, further investigations were planned to assess the contamination.

## Remedial Investigation and Baseline Risk Assessment

A remedial investigation (RI) was conducted in 1996, characterizing the nature and extent of contamination. Samples collected indicated that chemicals detected in surface soil and groundwater were above those levels allowed by Federal and State regulations. Chemicals present in the surface soil included inorganics and polynuclear aromatic hydrocarbons (PAHs). Inorganics found at the site included arsenic, antimony, cadmium, lead, and iron (some of which may be naturally occurring). PAHs present in surface soils included benzo(a)pyrene. PAHs are chemicals often found in plastics, areas where burning has taken place, and near airplane runways and traffic highways. Groundwater contained benzene, a common component of fuels and solvents.

A baseline risk assessment was conducted in 1997 and performed as part of the RI, to evaluate whether or not exposure to contamination at the site posed a risk to human health and the environment. Results are summarized in Table 1.

## Feasibility Study

A feasibility study (FS) was completed in 1997, identifying the remedial action objectives (RAOs) and remedial alternatives evaluated for surface soil and groundwater. The FS also evaluated each alternative against certain criteria, and then compared and contrasted each alternative. The cleanup alternative ultimately chosen for Site 7 is determined by the analysis outcome presented in the FS. ■

Table 1  
Risk Assessment Results

Media	Human Health Risks	Ecological Risks
Surface Soil	Possible risks to long-term residents, site workers, and trespassers	Possible risks to wildlife species
Subsurface Soil	None	None
Groundwater	Possible risks if used for drinking water	None

# Remedial A

## Remedial Action Objectives for Site 7

RAOs, or cleanup objectives, for contaminated media were established to protect human health and the environment and to comply with State and Federal regulations. The objectives can be summarized as follows:

- prevent humans from coming in contact with surface soil that has chemical concentrations greater than those outlined in the Florida Soil Cleanup Goals for industrial sites
- prevent humans from using groundwater with chemical concentrations greater than those specified in the Florida Drinking Water Standards as a drinking water source

## Remedial Alternatives for Site 7 Surface Soil

Two possible alternatives have been identified for cleaning up surface soil.

**No Action:** For this alternative, no remedial actions would be taken to address surface soil contamination.

**Excavation and Off-Site Disposal (Preferred Alternative):** As shown on Figure 2, contaminated soil is excavated from the site. The excavated area

# Community

In addition to this fact sheet series, NAS Cecil Field has established a comprehensive community relations program to encourage public involvement in the environmental cleanup process. Program highlights are presented below:

## Public Participation

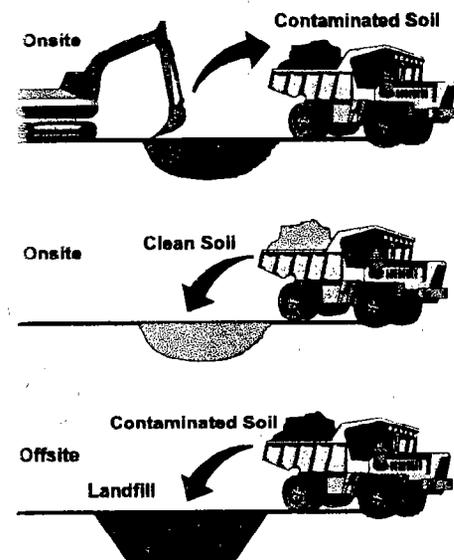
The public is encouraged to submit comments on the Proposed Plan for Site 7. The public comment period for Site 7 extends from October 28 through November 28, 1997. Comments may be written or verbal and should be submitted to the address listed on the back page of this fact sheet.

# Options and Alternatives

is sampled to confirm removal of all contaminants of concern. Finally, the excavated soil is transported to an off-site landfill, and the open pit is filled with clean soil.

Excavation and off-site disposal, the preferred alternative, eliminates future exposure of humans to contaminated surface soil because the soil is removed from the site.

**Figure 2**  
Excavation and Off-Site Disposal



## Remedial Alternatives for Site 7 Groundwater

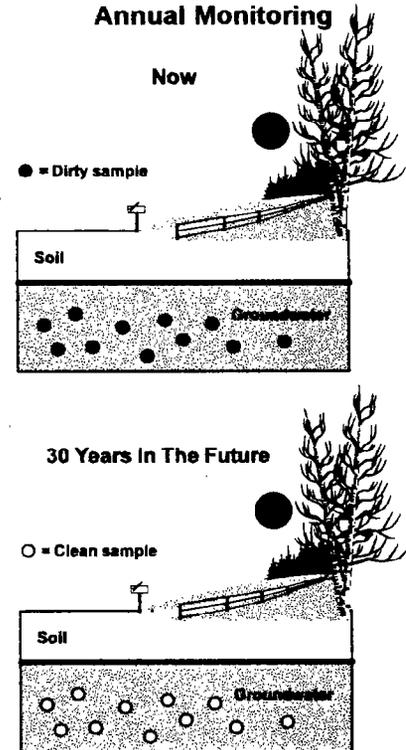
Two possible alternatives have been identified for cleaning up groundwater.

**No Action:** For this alternative, no remedial actions would be taken to address groundwater contamination at the site.

**Annual Monitoring (Preferred Alternative):** This alternative was developed because only one groundwater sample had concentrations of benzene greater than those allowed by the Florida Drinking Water Standards. For this alternative, four monitoring wells will be sampled every year over a 30-year period. This alternative would also include a restriction that would not allow use of groundwater as a drinking water source.

Annual monitoring is the preferred alternative. Under this alternative (Figure 3), benzene in groundwater would be watched over time. Sampling results would determine whether or not benzene is migrating from its current location. If concentrations are not decreasing, the cleanup alternatives would be reevaluated. ■

**Figure 3**  
Annual Monitoring



## What Happens Next?

The FS for Site 7 was finalized this fall, and the Proposed Plan will be published and available for review and comment on October 28, 1997. Both documents will be available in the Information Repository for NAS Cecil Field (see Community Participation Activities below). ■

# Participation Activities

If requested, a public meeting will be held to discuss the findings and recommendations of the Proposed Plan for Site 7. For more information on the Proposed Plan or to request a public meeting, please contact Mr. Charles Underwood at (904) 778-6055.

## Mailing List

A list of community members, local organizations, and public officials has been developed to receive cleanup program information. To be added to the list, contact NAS Cecil Field Public Affairs Office at (904) 778-6055.

## Information Availability

An Information Repository established at the Charles D. Webb Wesconnett Branch of the Jacksonville Public Library contains copies of the Proposed Plan and all other reports and documents for Site 7, as well as other IR program information. The Information Repository is located at the following address:

Charles D. Webb Wesconnett Public  
Library  
6887 103rd Street  
Jacksonville, Florida 32210  
(904) 778-7305

## Restoration Advisory Board

At monthly RAB meetings, Navy and regulatory officials meet with interested community members to discuss the environmental cleanup program. Established in October 1994, the 23-member RAB provides communication between the community and NAS Cecil Field before final cleanup decisions are made. RAB meetings are held on the third Tuesday of each month at 7:00 p.m. at the NAS Cecil Field Bachelor Officers Quarters Complex. Hope to see you there! ■

# Questions? Comments? Naval Air Station Cecil Field - Who to Call?

We want to hear from you!  
The public is encouraged to submit  
comments on the Proposed Plan for Site 7.  
A public comment period will be held  
October 28 through November 28, 1997.  
Comments may be sent to Mr. Charles  
Underwood, NAS Cecil Field Public  
Affairs Officer, (904) 778-6055.



**For more information, contact:**

Charles Underwood, Public Affairs Officer  
NAS Cecil Field, P.O. Box 111  
Jacksonville, Florida 32215-0111  
(904) 778-6055, [pao@cecilfield.com](mailto:pao@cecilfield.com)

**You can also visit us at our web site**  
[www.cecilfield.com](http://www.cecilfield.com)

***Become involved in the environmental program — attend a RAB meeting!***  
***These meetings are held monthly and are open to the public.***  
***Mark your calendars for the next meeting scheduled for November 18 at 7:00 p.m.***

## **Glossary**

**Industrial sites:** Sites where people are not expected to establish residence for a lengthy period of time.

**Inorganics:** Chemicals of mineral, not organic, origin, such as metals.

**Proposed Plan:** A document that summarizes remedial alternatives that may be used to remove or control a source of contamination at a site and identifies the preferred alternative for remedial action.

NAS Cecil Field  
P.O. Box 111  
Jacksonville, Florida 32215-0111  
Attn: Public Affairs Officer

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