

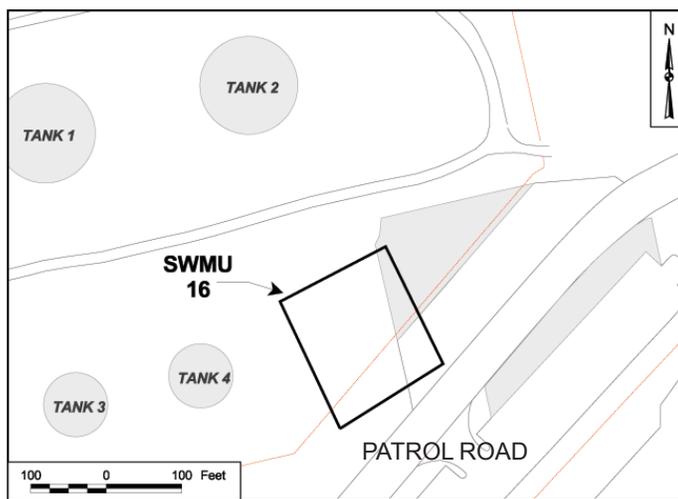
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FINAL STATEMENT OF BASIS FOR SOLID WASTE MANAGEMENT UNIT 16 OLD
TRANSFORMER STORAGE YARD NS MAYPORT FL
8/8/2008
NAVAL STATION MAYPORT

STATEMENT OF BASIS
SWMU 16 – Old Transformer Storage Yard
Naval Station Mayport
Mayport, Florida
USEPA ID #FL9 170 024 260



August 8, 2008



Facility/Unit Type: Naval Station
Contaminants: No Contaminants Exceeding Residential Cleanup Target Levels
Media: Soil and Groundwater
Corrective Action: Soil - No Further Action; Groundwater - No Action

SUMMARY

The proposed corrective action at **Solid Waste Management Unit (SWMU) 16** at Naval Station (NAVSTA) Mayport is **No Further Action (NFA)** for soil and **No Action** for **groundwater**. The **Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI)** conducted at SWMU 16 at NAVSTA Mayport indicates NFA is required. SWMU 16 has been impacted by low concentrations of polychlorinated biphenyls (PCBs) in the **surface** and **subsurface soil**, suggesting that oil containing PCBs may have been released from transformers stored at the site. However, the soil where the PCBs were detected was removed and the area paved for use as a parking lot.

The public is invited to comment on this proposed corrective action or any other alternative including those not previously studied. More information on how the public may participate in this decision making process is provided in the Public Participation section of this document.

INTRODUCTION

Pursuant to RCRA as amended by the 1984 **Hazardous and Solid Waste Amendments (HSWA)**, the **Florida Department of Environmental Protection (FDEP)** issued the current HSWA **permit** to NAVSTA Mayport on August 30, 2005.

This **Statement of Basis (SB)** identifies the NFA corrective action for soil and the No Action corrective action for groundwater at SWMU 16, explains the related rationale for its selection, solicits public review and comment on this decision, and provides information as to how the public can be involved in the decision process. Additional details regarding the facility, the environmental investigation conducted under the RFI, and the evaluation of the NFA decision may be found in the RFI and Confirmatory Sampling Report. These documents are kept as part of the Administrative Record at the **Information Repository**. Refer to the Public Participation section of this document for their location. A glossary, which defines some of the technical terms contained herein, is included at the end of this document.

The NFA **corrective measure** for soil and the No Action corrective measure for groundwater reflected in this SB are proposed by the United States Navy (Navy) for implementation at SWMU 16. Changes to either the proposed NFA corrective action for soil or the No Action corrective action for groundwater or a change from the proposed corrective action to another appropriate solution will require public participation.

PROPOSED CORRECTIVE ACTION

The proposed corrective action at SWMU 16 at NAVSTA Mayport is NFA for soil and No Action for groundwater.

FACILITY BACKGROUND

NAVSTA Mayport is located near the town of Mayport within the city limits of Jacksonville, Florida, in northeastern Duval County on the southern shore of the confluence of the St. Johns River and the Atlantic Ocean (see Figure 1). SWMU 16 is located in the northern part of NAVSTA Mayport, approximately 75 feet east of the Fleet Industrial Supply Center Fuel Farm and 280 feet south of the St. Johns River (see Figure 2). The area was covered with pulverized clayey limestone in 1987 for use as a long-term parking lot and was no longer used for transformer storage.

In 1995, the surface soil and pavement at SWMU 16 were excavated to a depth of 18 inches to prepare the area for use as a paved parking lot. The excavated materials were temporarily stockpiled approximately 250 feet southwest of SWMU 16. On July 19, 1995, Navy personnel collected four composite samples of the materials excavated from SWMU 16 and analyzed the samples with a field immunoassay test kit. The composite samples results indicated that PCB concentrations were less than the human health-based residential FDEP Soil Cleanup Target Levels (SCTLs).

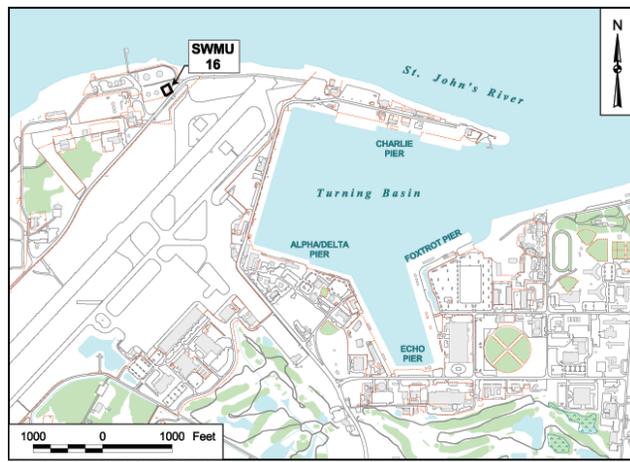
Minor spills and leaks of transformer oils were reported to have occurred while transformers were stored at the site. The asphalt at the site was reportedly cracked or broken up and potential contamination could have reached the underlying soil.

Following the RFI, a confirmatory sampling event was conducted to verify the absence of soil contaminants at a depth greater than 18 inches below land surface. As explained in the Soil Sampling Letter Report, PCBs were not detected in the subsurface soil at SWMU 16. The results of the confirmatory sampling event were included in the RFI report.

Figure 1. Naval Station Mayport Location Map



Figure 2. SWMU 16 Location Map



SUMMARY OF FACILITY RISKS

A **Human Health Baseline Risk Assessment** and an Ecological Risk Assessment were performed as part of the RFI. An exceedance of an FDEP or **United States Environmental Protection Agency (USEPA)** risk level indicates a potential concern for the SWMU.

Human Health Risk Assessment

Preliminary risk characterization for SWMU 16 was conducted for potential exposures to subsurface soil and groundwater under future land-use scenarios.

Soil. After completion of the interim measure, results of the subsurface soil assessment did not indicate the presence of PCB concentrations greater than the FDEP residential and SCTLs.

Groundwater. As explained in the RFI groundwater assessment, no chemical constituents were detected in exceedance of either background screening

concentrations or FDEP groundwater cleanup target levels (GCTLs).

Ecological Assessment

Based on the RFI findings, no risk to terrestrial wildlife populations was determined to be likely due to exposure to surface soil. No pathway for ecological exposure to subsurface soil was identified in the RFI. Additionally, the RFI found groundwater discharge into St. Johns River did not pose a risk to aquatic receptors including fish, amphibians, plants, and invertebrates.

Interim Measure

In 1995, soil where the PCBs were detected was removed as an interim measure, and the area was paved for use as a parking lot.

Conclusions

Based on the results of the RFI, risk assessments, confirmatory sampling, and excavation conducted at SWMU 16, no chemical constituents were detected in the surface soil, subsurface soil, or groundwater that would adversely impact human health or ecological receptors.

SCOPE OF THE CORRECTIVE ACTION

No contaminants in soil exceed the residential SCTLs in Chapter 62-777 of the Florida Administrative Code (FAC). No contaminants in groundwater exceed the GCTLs in Chapter 62-777, FAC. Therefore, **Land Use Controls** (LUCs) will not be required for the SWMU.

No **chemicals of concern** (COCs) were identified for SWMU 16 after the removal of PCB-contaminated soils. Therefore, contamination maps were not prepared.

SUMMARY OF ALTERNATIVES

Based on the RFI findings showing no contaminants exceeded residential SCTLs or GCTLs, corrective action is not required and NFA is recommended for soil, and No Action is recommended for groundwater at SWMU 16.

EVALUATION OF THE PROPOSED REMEDY AND ALTERNATIVES

No proposed corrective actions or alternatives were evaluated for SWMU 16 because NFA is recommended for soil and No Action is recommended for groundwater at this SWMU.

PUBLIC PARTICIPATION

To make a final decision and incorporate a NFA corrective measure for soil and the No Action corrective measure into the HSWA permit, the FDEP is soliciting public review and comment on this SB for the proposed NFA corrective action for SWMU 16 at NAVSTA Mayport. The 40 *Code of Federal Regulations* (CFR) 124.10(6) requires a 45-day comment period for a permit modification request made by the permittee under RCRA. The FDEP has undertaken the lead role on this request initiated by the Navy (the permittee). The comment period will begin on August 24, 2008, and will be published in the *Florida Times Union* newspaper.

Copies of the RFI and Confirmatory Sampling Reports and the SB are available for public review at the Information Repository located at the Jacksonville Public Library - Beaches Branch, 600 3rd Street, Neptune Beach, FL, 32266 [Phone (904) 241-1141].

A public hearing will be held if one is requested. To request a public hearing, to obtain more information about this SB, or to submit written comments please contact please contact Diane Racine or John Winters.

All comments must be postmarked no later than October 7, 2008.

Next Steps

Unless otherwise indicated, the FDEP will modify the HSWA permit to incorporate the final decision on the RCRA permit modification request when the permit is renewed. The final selection will detail the NFA corrective measure chosen for SWMU 16 and will consider comments received during the **public comment period** in a **Response to Comments Summary**.

When the permit is modified, notice will be given to the Navy and to each person who has submitted written comments or who has requested notice of the final decision. The final permit decision shall become effective 30 days after the issuance of the notice of the decision unless a later date is specified or review is requested under 40 CFR 124.19. If no comments are received requesting a change in the draft permit, the final permit modification shall become effective immediately upon issuance.

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KEY WORDS

CFR Code of Federal Regulations
COC Chemical of Concern
FAC Florida Administrative Code
FDEP Florida Department of Environmental Protection
GCTL Groundwater Cleanup Target Level
HSWA Hazardous and Solid Waste Amendments
LUC Land Use Control
NAVSTA Naval Station
Navy United States Navy
NFA No Further Action
PCB Polychlorinated Biphenyl
RCRA Resource Conservation and Recovery Act
RFI RCRA Facility Investigation
SB Statement of Basis
SCTL Soil Cleanup Target Level
SWMU Solid Waste Management Unit
USEPA United States Environmental Protection Agency

GLOSSARY

Chemical of Concern (COC): A chemical detected in soil or groundwater at a concentration that may adversely affect human health or ecological receptors.

Corrective Measure: The actual construction or cleanup phase following the selection of cleanup alternatives.

Florida Department of Environmental Protection (FDEP): The state agency responsible for implementing Florida environmental laws.

Groundwater: Water found within an aquifer.

Hazardous and Solid Waste Amendments (HSWA): Amendments to RCRA, passed in 1984, which greatly expand the nature and complexity of activities covered under RCRA.

Human Health Baseline Risk Assessment: Study to determine the likelihood that a given exposure or series of exposures may have damaged or will damage human health.

Information Repository: A public file containing technical reports, reference documents and other materials relevant to the site cleanup.

Land Use Control (LUC): Is broadly interpreted to mean any restriction or control arising from the need to protect human health and the environment, that limits use of and/or exposure to any portion of a given property, including water resources. This term encompasses institutional controls, such as those involving real estate interests, governmental permitting, zoning, public advisories, deed notices and other legal restrictions. The term may also include restrictions on access, whether achieved by means of engineered barriers such as a fence or concrete pad, or by human means, such as the presence of security guards. Additionally, the term may involve both affirmative measures to achieve the desired restriction (e.g., night lighting of an area) and prohibitive directives (no drilling of drinking water wells).

No Further Action (NFA): Recommendation or decision indicating contaminants are no longer present above regulatory limits.

Permit: A RCRA permit, issued for NAVSTA Mayport, establishes the facility's operating conditions for managing hazardous waste.

Public Comment Period: A legally required opportunity for the community to provide written and oral comments on a proposed environmental action at a hazardous waste site.

RCRA Facility Investigation (RFI): Evaluates the nature and extent of the releases of hazardous waste.

Resource Conservation and Recovery Act (RCRA) of 1976: Requires each hazardous waste treatment, storage and disposal facility to manage hazardous waste in accordance with a permit issued by the USEPA or a State agency that has a hazardous waste program approved by the USEPA.

Response to Comments Summary: A document summarizing the public comments received and the responses to the comments.

Risk Assessment: A study estimating the potential risk a site poses to human health and the environment.

Solid Waste Management Unit (SWMU): Any discernable unit (to include regulated units) at which RCRA regulated waste has been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste.

Statement of Basis (SB): A public participation document detailing the proposed corrective action at a site.

Surface Soil: Soil from zero to two feet below land surface.

Subsurface Soil: Soil two feet below land surface and deeper.

United State Environmental Protection Agency (USEPA): The Federal agency responsible for implementing United States environmental laws.

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**Comments on the Statement of Basis for the
Old Transformer Storage Yard (SWMU 16)**

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