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NCBC GULFPORT
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PUBLIC NOTICE REGARDING PROPOSED PLAN FOR SITE 3 NORTHWEST LANDFILL
NCBC GULFPORT MS
7/1/2010
NAVFAC SOUTHEAST



Northwest Landfill (Site 3) Proposed Plan

NCBC GULFPORT INSTALLATION RESTORATION

Summary

This Fact Sheet summarizes the Navy's proposal to cover a former landfill to address contaminants detected in surface soil and groundwater at Site 3, the Northwest Landfill, located on NCBC Gulfport. This remedy would prevent contact with contaminated surface soil and groundwater, minimize rainfall passing through the soil, and prevent transport of contaminants by erosion.



Site 3 is located on the former Pine Bayou Golf Course.

The Northwest Landfill (Site 3)

Background

Site 3 is a former landfill located in the northwestern section of NCBC Gulfport. The landfill area is located northeast of the intersection of 8th Street and Colby Avenue and until recently has been used as a portion of the 16th fairway and 18th tee box at the Pine Bayou Golf Course. Future use of the area is currently being planned, but is anticipated to remain recreational. A small pond is located north of the 16th fairway and a second larger pond, located south of 8th Street, was used as a water source for golf course irrigation.

The Site 3 landfill operated from 1948 to 1966. During this time, nearly all of the solid waste (approximately 30,000 tons) and some of the liquid/chemical waste generated at NCBC Gulfport were disposed in this landfill.

The Remedial Investigation

To determine the nature and extent of contamination at the site, a Remedial Investigation (RI) was conducted in the summer of 2006 and the fall of 2007. The RI consisted of a geophysical and soil gas survey and surface soil, subsurface soil, sediment, surface water, and groundwater sampling. The RI Report concluded that conditions at Site 3 were similar to a typical military landfill with characteristics similar to a municipal landfill and that a presumptive remedy approach should be applied at the site to expedite cleanup.

As part of the RI, a risk assessment was completed to assess potential human health and environmental impacts from contaminants found at the site.

The human health risk assessment showed that hypothetical future residents would have unacceptable health risks if exposed to the contaminants of concern in groundwater and surface soil at Site 3. The contaminants of concern at the site include benzene and chlorinated solvents in groundwater and polynuclear aromatic hydrocarbons (PAHs) in surface soils. PAHs are often associated with the incomplete burning of coal, gas, wood, and other organic substances. Arsenic is commonly found in regional soils.

Ecological risks were not evaluated for the soils on Site 3 because of the intention to cover the site with a cap. Ecological risks evaluated for sediment and surface water in the nearby Canal No. 1 showed only a minimal risk when factors such as size and quality of the habitat on the site were considered.

Evaluation of the Cleanup Alternatives

The Feasibility Study and Proposed Plan for Site 3

A Feasibility Study (FS) was completed to evaluate possible cleanup remedies for Site 3. Because conditions at the site were determined to be similar to a typical municipal landfill, the USEPA's "Presumptive Remedy" approach was used to streamline the cleanup process. Using the streamlined process, only two remedies needed to be evaluated in the FS: No Action (Alternative 1) and the Presumptive Remedy (Alternative 2) as described below.

Alternative 1: No Action

A No Action alternative is always used as a baseline for comparison with other alternatives. This option assumes that no changes would be made to the existing conditions at the site.

Alternative 2: Capping, Ditch Lining, Land Use Controls, and Monitoring

The recommended alternative for Site 3 includes the following:

- Covering the landfill with a cap to prevent contact with contaminated surface soil, minimize rainfall passing through the soil, manage landfill gases, and prevent transport of contaminants by erosion.
- Preventing future residential development and groundwater use at the site.
- Monitoring the groundwater quality to ensure that contamination is not leaving the site and tracking the natural breakdown of the chlorinated solvents in groundwater.
- Inspecting the site to ensure the integrity of the cap.
- Monitoring and managing landfill gases.

More information about Site 3 and the preferred alternative is available in the Proposed Plan and associated documents. These documents are available for review in the Information Repository. Copies of the Proposed Plan are available from the

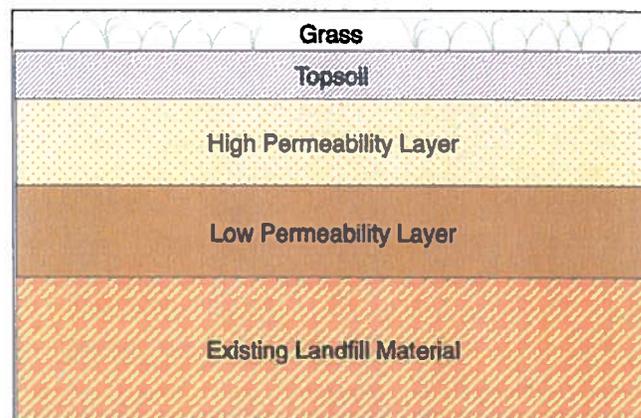
The Information Repository

The NCBC Gulfport Information Repository contains the Northwest Landfill (Site 3) Proposed Plan and supporting documents. The Information Repository is temporarily located at the:

Gulfport Public Library (temporary location):
47 Maples Drive #1
Gulfport, MS 39501
(228) 871-7171



Construction of a landfill cap similar to the one being proposed for Site 3.



A key component of Alternative 2 is a landfill cover composed of layers similar to those shown in this diagram. The high permeability layer shown is often composed of a sand. The low permeability layer, which is often composed of clay, is approximately 100 times more dense than the low permeability layer. This low permeability layer serves to prevent water from infiltrating the existing landfill material. The final cover will be designed to allow the site to be used for recreational activities.

The Public Comment Period

The Site 3 Proposed Plan is available for your review and comments during the Public Comment Period from July 15, 2009, through August 16, 2010.

Comments on this proposal may be provided in writing to:

Installation Restoration Program Manager
Mr. Gordon Crane
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Gulfport, MS 39501

For more information please contact Gordon Crane:
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