

N62604.AR.000805
NCBC GULFPORT
5090.3a

FACT SHEET REGARDING FORMER GOLF COURSE LANDFILL PROPOSED PLAN SITE 4
NCBC GULFPORT MS
12/15/2009
NCBC GULFPORT



Golf Course Landfill (Site 4) Proposed Plan

NCBC GULFPORT INSTALLATION RESTORATION

Summary

This Fact Sheet summarizes the Navy's proposal to cover a former landfill and remove contaminated sediment from the adjacent Canal 1 on the Golf Course Landfill, Site 4, located on NCBC Gulfport. This remedy would prevent contact with contaminated surface soil and sediment, minimize rainfall passing through the soil, and prevent transport of contaminants by erosion.



Site 4 is currently part of the Pine Bayou Golf Course

The Golf Course Landfill (Site 4)

Background

Site 4 is a former landfill located in the western section of NCBC Gulfport, northeast of the intersection of 7th Street and Canal No. 1. The landfill is approximately 4 acres in size and is currently used as part of a golf course fairway. The northwestern boundary is defined by the drainage ditch known as Canal 1. Presently, the southern portion of the site is covered by the greens of the 9th and 18th holes of the Pine Bayou Golf Course.

The site, which is covered with grass typical of golf courses, is mostly free of dense or high vegetation but is surrounded by trees and other various types of vegetation on the northeastern

edge.

The Site 4 landfill operated from 1966 to 1972 and was the only operating landfill on the base during this time. Solid waste such as construction debris and general refuse made up the bulk of the materials disposed of at Site 4. It was reported that nearly 16,000 tons of solid waste were disposed of at the landfill.

Additionally, as much as 20,000

The Remedial Investigation (RI)

To determine the nature and extent of contamination at the site, an RI was conducted in 2004 with a follow-up surface soil study in 2007. The RI consisted of a geophysical survey as well as surface soil, subsurface soil, sediment, surface water, and

groundwater sampling. The RI Report (2007) concluded that conditions at Site 4 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 risk assessment showed that occupational workers and/or possible future residents would have an unacceptable health risk if exposed to vinyl chloride and other chlorinated hydrocarbons in groundwater and CVOCS and dioxins in soil. Covering the landfill will remove the potential risks eliminated the possibility of coming into contact with the contaminants.

Evaluation of the Cleanup Alternatives

The Feasibility Study and Proposed Plan for Site 4

A Feasibility Study (FS) was completed to evaluate possible cleanup remedies for Site 4. Because conditions at the site were determined to be similar to a typical municipal landfill, the federal EPA'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 4 includes:

- 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;
- Removing sediment from Canal 1 and placing it in the landfill area to be capped.
- Installing an erosion barrier on the landfill side of Canal 1.
- Preventing future residential development and groundwater use at the site; and
- Monitoring the groundwater quality and inspecting the site to check the integrity of the cap.

More information about Site 4 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 Gordon Crane, the NCBC Gulfport Installation Restoration Program Manager.

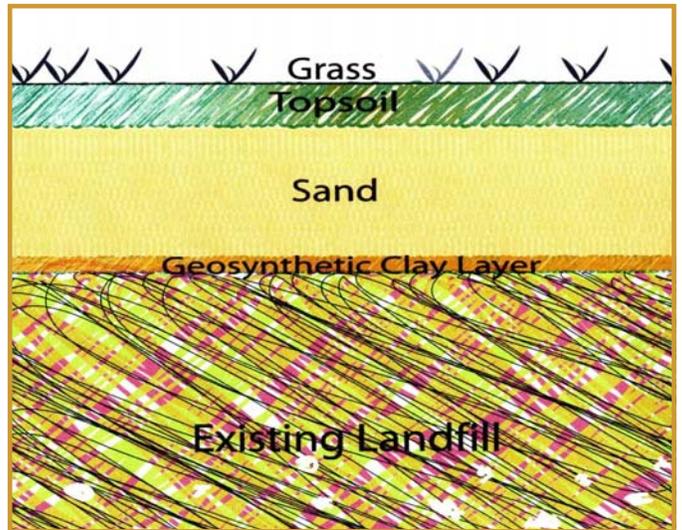
For more information please contact Gordon Crane

Phone: (228) 229-0446

e-mail: gordon.crane@navy.mil



The sediment in Canal 1 would be excavated and an erosion barrier would be constructed on the landfill side of the canal.



A key component of Alternative 2 is a landfill cover composed of layers similar to those shown in this diagram. The cover would allow the site to be used for recreational activities.

The Information Repository

The NCBC Gulfport Information Repository contains the Heavy Equipment Training Landfill (Site 4) Proposed Plan and supporting documents. The Information Repository is temporarily located at the:

*Gulfport Public Library (temporary location)
47 Maples Drive #1
Gulfport, MS 39507
(228) 871-7171*

The Public Comment Period

The Site 4 Proposed Plan is available for your review and comments during the Public Comment Period from December 15, 2009 through January 15, 2010.

Comments on this proposal may be provided in writing to:

*Mr. Gordon Crane
Installation Restoration Program Manager
2401 Upper Nixon Avenue
Gulfport, MS 39501*