

Landfill and Development Company

New Jersey

EPA ID#: NJD048044325

EPA REGION 2

Congressional District(s): 03

Burlington
Mt. Holly, Eastampton Townships

NPL LISTING HISTORY
Proposed Date: 9/1/1983
Final Date: 9/1/1984

Site Description

The Landfill and Development Company site is a 200 acre landfill located in the Townships of Mount Holly and Eastampton, Burlington County, New Jersey. The site is located on the north side of Route 38, approximately one mile east of Route 206. Beginning in the early 1940's, the site was operated as a sand and gravel pit. The first waste disposal activities were initiated at the site in 1962, with the disposal of demolition debris. In 1968, disposal of municipal refuse, industrial and commercial solid waste and treated sewage sludge began. Landfilling activities continued until 1986. In the late 1990's the landfill closure was completed, including a clay liner, a leachate collection system and a methane gas collection system.

Over 20,000 people live within 2 miles of the site. Fifty homes are located within 500 feet of the site. There are eighteen wells located down gradient of the landfill, but only two of the wells are currently used for drinking water (these two wells are completed in the uncontaminated Englishtown aquifer). Residents that are not on public water are being supplied with bottled drinking water.

The landfill is within the drainage basin of Rancocas Creek. The Smithville Canal is within the flood plain of the creek and discharges into it. Smithville Lake is located 1,600 feet away from the site. All of these bodies of water are used for recreational activities.

Site Responsibility: This site is being addressed through State and potentially responsible party actions.

Threat and Contaminants

The two upper aquifers underneath and downgradient of the site are contaminated with various VOCs and heavy metals. Sediments from Rancocas Creek and Smithville Canal contain heavy metals. Rancocas Creek and Smithville Canal are used for recreational activities. The majority of local residents are connected to the public water supply. Although private wells were not found to be contaminated from the site, there is a potential that pollutants may migrate to them. Therefore, residences downgradient of the Central Area that were not on public water supplies have had new wells installed in an underlying clean aquifer.

Cleanup Approach

This site has been addressed in two stages: an initial action that addresses the groundwater contamination threat to residents downgradient of the site and a long-term remedial phase addressing the entire site.

Response Action Status

Initial Action: The Landfill and Development Company, under New Jersey Department of Environmental Protection (NJDEP) oversight, placed most residences on potable public water, provided bottled water to other residents, and installed a liner at a portion of the landfill to prevent further migration of contaminants.

Entire Site: A Record of Decision for the site was signed in September 2004. The ROD called for continued maintenance of the closure system, groundwater extraction in the Middle Wenonah aquifer in the Central Area to provide hydraulic containment, Enhanced Aerobic Treatment in Cell 9 (whereby leachate and groundwater was recirculated into the landfill cell, along with appropriate air injection, to enhance contaminant degradation), installation of alternate water supplies to residences along Rabbit Run and Hand Lane, and long-term monitoring for groundwater.

Cleanup Progress

The remedy specified in the ROD (as modified by the Explanation of Significant Differences, see below) has been implemented. The landfill was closed and capped prior to the selection of the site remedy. A groundwater capture system is in operation. A bioreactor was constructed in one of the landfill cells and operated. Further operation of the bioreactor is not considered necessary based on the reduced concentration of contaminants found in leachate from that landfill cell.

The provision of bottled water reduced potential health threats at the Landfill and Development Company site, but that was not considered a permanent remedy. Therefore, certain residences on Rabbit Run and Hand Lane were to get an alternate water supply. The ROD called for a water line, but that was modified by the Explanation of Significant Differences in September 2009, that clarified that the alternate water supply for remaining residents would be wells installed into an underlying clean aquifer rather than a water line. Well installation was completed in August 2010. Many residences were bought by Burlington County for Green Acres property.

Site Repositories

Burlington County Library 5 Pioneer Boulevard Westampton, NJ 08060 Phone: (609) 267-9660