

Syosset Landfill

New York

EPA ID#: NYD000511360

EPA REGION 2

Congressional District(s): 03

Nassau
Oyster Bay

NPL LISTING HISTORY

Proposed Date: 12/1/1982

Final Date: 9/1/1983

Deletion Date: 4/28/2005

Site Description

The Syosset Landfill Site is located in the Town of Oyster Bay, Nassau County, NY. The site is approximately 38 acres in size. Single family residences and an elementary school are located to the northeast of the site. Offices and storage yards for the Town of Oyster Bay Sanitation and Highway Departments occupy the southern end of the site. The Landfill operated from approximately 1933 to 1975. Between 1933 and 1967, no restrictions were imposed on the types of wastes accepted at the landfill. Waste types included: commercial, industrial, residential, demolition, agricultural, sludge material and ash. In 1967, with the opening of another landfill to the east of Syosset in Old Bethpage, the Town stopped using the Landfill for the disposal of its domestically generated wastes. The Town also directed some industrial generators to use the Old Bethpage facility, but some industrial wastes continued to be disposed of at the Landfill until it was closed.

Site Responsibility: This site was addressed through Federal and potentially responsible parties' actions.

Threat and Contaminants

Groundwater contains low levels of volatile organic compounds (VOCs) including vinyl chloride, benzene, toluene, and xylene; heavy metals including lead, arsenic, chromium, cadmium, manganese, and iron; and polychlorinated biphenyls (PCBs). Accidental ingestion and direct contact with contaminated groundwater were potential health threats for individuals living near the site. However, with the construction of the site remedy completed, all potential health threats have been eliminated.

Cleanup Approach

The site was addressed in two stages: immediate actions and a long-term remedial phase focusing on cleanup of the on-site contamination.

Response Action Status

Immediate Actions: A permanent ventilation trench has been constructed to prevent gas migration from the site to the school area. Continuing air analysis indicates that the gas concentrations in the area north of the ventilation trench were reduced to non-detectable levels.

On-Site Contamination: The potentially responsible party completed an investigation to determine the extent and nature of on-site contamination. The EPA selected a remedy in 1990, which includes capping the landfill, monitoring and maintaining the gas collection system, installing an additional gas venting system, monitoring the air and groundwater quality, maintaining the fence around the perimeter of the landfill, and implementing institutional controls to restrict future use of the landfill. The design of the remedy began in October 1991 and included the placement of clean fill material on site in order to enhance settlement prior to cap construction (which is known as a pre-load program). This pre-load program was completed in May 1996. The final design for capping of the landfill was approved in May 1996. The capping of the Landfill was completed in November 1997. Approximately 6,732,000 tons of contaminated material were contained.

Off-Site Contamination: The possible migration of contaminants from the landfill was investigated. The field work to determine the extent of off-site groundwater contamination was initiated in September 1992 and was completed in September 1993. EPA determined that contamination was limited and did not pose a significant threat to human health.

or the environment and therefore, no groundwater remediation was necessary. This determination was documented in a Record of Decision which EPA issued on March 28, 1996.

A five-year review was completed at the Site in January 2007. Based upon reviews of the two Records of Decision, Annual Ground-Water Sampling Results, and Site Inspection Reports as prepared by the Town of Oyster Bay, as well as a Site visits by EPA personnel, EPA concluded that the remedies as set forth in the decision documents for the Site continue to protect human health and the environment. There are no exposure pathways that could result in unacceptable risks and none expected as long as the site use remains consistent with the site's access and institutional controls and those controls are properly monitored and maintained.

Cleanup Progress

The threat of gas vapor migration from the landfill has been eliminated. In October 1996, the installation of the cap was completed and approximately 6,732,000 tons of waste were contained. The capping of the landfill has eliminated the potential of a direct contact threat and will control leachate generation associated with rainfall infiltration. On September 18, 1998, EPA determined that all construction activities were completed at the site. In addition, EPA determined that the Site poses no significant threat to public health or the environment.

In 2005, EPA determined that the responsible parties and others have implemented all appropriate response actions selected in the September 27, 1990 OU1 Record of Decision. Therefore, the Site was deleted from the National Priorities List on April 28, 2005.

Site Repositories

Syosset Public Library 225 South Oyster Bay Road Syosset, New York 11791 Tel. (516) 921-7161

Hours: Monday through Thursday: 9:00 a.m. through 9:00 p.m., Friday: 10:00 a.m. through 9:00 p.m., Saturday: 9:00 a.m. through 5:00 p.m. and Sunday: 12:00 noon through 5:00 p.m.

and Oyster Bay Town Hall 54 Audrey Avenue Oyster Bay, New York 11771 Tel. (516) 624-6100 Hours: Monday through Friday: 9:00 a.m. to 5:00 p.m.