Fiscal Year 2016 Unfunded New Construction Project

Peninsula Boulevard Groundwater Plume Superfund Site
Hempstead, New York

Site Description

The Peninsula Boulevard site consists of the area within and around a groundwater plume in Hempstead, New York.

The area consists of a mix of commercial and residential properties. Woodmere Middle School is located along the western site boundary. Portions of Motts Creek, Doxey Brook Drain, and an unnamed tributary leading to Motts Creek are located within the site.

The residences in the area of the site are serviced by the New York American Water Company, which operates a well field approximately 1,000 feet north of the site. The site was placed on the National Priorities List in 2005.

Site Status and Cleanup Actions to Date

- EPA conducted a remedial investigation/feasibility study at the site from 2005 through 2010. The investigation delineated two groundwater plumes. The first is in the shallow Upper Glacial Aquifer and is approximately 3,500 feet long. The second is in the deep part of the aquifer and is approximately 1,100 feet long.
- EPA conducted several soil vapor-intrusion sampling events at the site in 2009, 2010 and 2011. Of the 13 residences sampled, one residence had sub-slab and indoor air levels of concern. As a result, in 2009, EPA installed a radon system at this private residence.
- In 2011, EPA issued a record of decision for groundwater contamination cleanup, designated as operable unit 1. The selected remedy consisted of a combination of groundwater extraction with treatment and application of in-situ chemical treatments. At the time of the record of decision's issuance, EPA had not identified the source of the groundwater contamination.
- In 2012, EPA initiated a remedial investigation to locate the source of the groundwater contamination. This investigation is ongoing. EPA anticipates completion in 2017.
- EPA completed the remedial design for the in-situ component of the remedy in August 2016. The in-situ design contains the elements for the application of a biological emulsion, including injection wells.
- EPA completed the remedial design for a groundwater extraction and treatment system in September 2016.

Unfunded Action

The FY 2016 unfunded remedial action for this site consists of construction of the in-situ chemical treatment and the groundwater extraction and treatment system.

Funding Status

To date, EPA has spent approximately $2.7 million for remedial design work associated with operable unit 1.