

PUMP & TREAT REMEDIAL SYSTEM

Site Information

Brookhaven National Lab
Upton, NY

Client Information

US Department of Energy

Project Highlights

- In-well Air Stripping is an innovative technology that was applied to this site.
- The site is listed on the National Priority List (NPL).
- EnviroTrac trenched and installed over 7,500 feet of 10" diameter piping.
- EnviroTrac provided design support and valued engineering to the designer to aid in the smooth operation of the system.
- EnviroTrac provided training to BNL workers after installation of the system was completed.

At the DOE Brookhaven National Laboratory (BNL), in Upton, NY ground water within a complex glacial aquifer is contaminated with chlorinated organic solvents at a depth of 150 – 230 ft. below the surface. Because BNL is situated over a sole-source aquifer, which provides drinking water for Long Island, EPA placed BNL on the National Priorities List (NPL).

EnviroTrac was contracted by BNL to install an In-Well Vapor Stripping (IWVS) system under strict health and safety protocol. The selection process was aided by EnviroTrac's input and knowledge of IWVS systems in the design stage of this project. IWVS is an in-situ remediation technology that integrates air stripping of VOCs in ground water by converting them to a vapor phase. IWVS creates a ground-water circulation cell in a contaminated zone where contaminants are continually drawn into the well, stripped from the ground water, and the treated ground water is discharged back in to the aquifer. The circulating well concept is also known as groundwater circulating well technology (GCWT).

EnviroTrac's construction and engineering group installed over 7,500 feet of 10" diameter PVC underground piping and all equipment, manifolding and controls/sensors/gauges at the wellheads and in the treatment building. Manifold construction included 24" diameter PVC piping and fittings. The system pumps 420 gpm with airflows exceeding 4,800 cubic feet per minute.

EnviroTrac prepared detailed O&M Manuals for treatment system and provided site training for BNL workers that were responsible for the maintenance of the system.



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