

SOIL VAPOR INTRUSION MITIGATION

Site Information

West Side Corporation, Jamaica,
Queens County, New York

Client Information

NYSDEC

Project Highlights

- Ground water, contaminated with solvents, was impacting residential indoor air quality at a site in Jamaica NY.
- EnviroTrac was contracted by the NYSDEC to design, construct and install over 30 sub-slab depressurization systems to mitigate vapor intrusion.
- The vapor mitigation systems successfully induced negative sub-slab pressure to effectively prevent human exposure.
- The systems will be maintained by EnviroTrac until completion of ground water remediation and verification that vapor in sub-slab soil pose no threat to indoor air quality.

EnviroTrac Ltd. (ET) was retained by the New York State Department of Environmental Conservation (NYSDEC) in January 2008 to design and install vapor mitigation systems in over 30 residential structures overlying a solvent ground water plume. The systems were designed in accordance with applicable guidelines contained in the New York State Department of Health and the USEPA soil vapor intrusion guidance documents. Each system consisted of one or more depressurization points installed in the basement floor slab, extraction and discharge piping, in-line vacuum blower and connection to existing electrical service.

Contaminants included tetrachloroethylene (PCE) detected in sub-slab and indoor vapor throughout the site, indicating that vapor was migrating from the ground water plume into indoor air. Installation of the mitigation systems successfully induced a negative pressure differential between indoor and sub-slab air, preventing potential human inhalation exposures. The systems will be maintained until ground water below the structures is remediated and PCE vapor is no longer detected in sub slab soil.

EnviroTrac's engineering division designed, installed and tested the vapor mitigation systems and will maintain operation until no longer necessary.



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