

SOIL VAPOR INTRUSION INVESTIGATION

Site Information

West Side Corporation, Jamaica,
Queens County, New York

Client Information

NYSDEC

Project Highlights

- Ground water, contaminated with solvents, was potentially impacting residential indoor air quality at a site in Jamaica NY.
- EnviroTrac was contracted by the NYSDEC to investigate vapor intrusion potential in over 125 residential structures.
- Each structure was tested by collecting integrated samples from sub-slab, indoor and outdoor air.
- Potential vapor intrusion was found in over 30 structures requiring the installation of mitigation measures.

EnviroTrac Ltd. (ET) was retained by the New York State Department of Environmental Conservation (NYSDEC) in December 2007 to conduct a vapor intrusion investigation of a residential neighborhood overlying a solvent ground water plume in Jamaica NY. The investigation included sampling over 125 residential structures in accordance with the New York State Department of Health and the USEPA soil vapor intrusion guidelines.

Each structure was tested by installing a minimum of one sub-slab vapor point sealed into the basement floor and simultaneously collecting integrated air samples from sub-slab, indoor and outdoor air. Prior to collecting air samples, a chemical inventory of each structure and an interview with the owner was conducted to document potential analytical interferences. A pre and post sampling tracer gas test was performed on the sub-slab vapor points to determine the integrity of the surface seal.

Results of the investigation were used to evaluate potential vapor intrusion into indoor air. Contaminants included tetrachloroethylene (PCE). Sub-slab depressurization systems were installed in up to 30 structures to mitigate vapor intrusion. The inspection the location of indoor and outdoor samples will be determined.



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