

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## Region 3 Main Office

21 South Putt Corners Road, New Paltz, NY 12561-1620

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[www.dec.ny.gov](http://www.dec.ny.gov)

## Danzig Groundwater Plume (344082)

### Scope of work:

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The New York State Department of Environmental Conservation (the Department, hereafter), is investigating contamination migrating into New York groundwater from an identified chlorinated solvent plume at the border with New Jersey. Background documents will be provided for review. The site characterization scope of work is as follows:

- Soil vapor intrusion investigations of structures within the initial study area during the 2019-2020 heating season:
  - 45 structures within the study area with initial building inspection and survey
  - Sub-slab and indoor air pairs in each structure
  - Potential for multiple pairs in some structures depending on conditions encountered
  - Ambient air background sampling
  - Samples will be sent to Department procured lab for analysis by TO-15
  - Ambient (background) sampling as needed
  - Installation of sampling points
  - QA/QC sampling in accordance with DER-10
  - All sampling to be completed in accordance with NYSDOH guidance for evaluating soil vapor intrusion
  - Utility mark out and subsurface investigation as necessary
  
- Investigate whether shallow groundwater recharge to the Sparkill Creek is contaminating the surface water by sampling upstream, at the border near the expected center of the shallow groundwater plume, and downstream.
  - Collection of one upstream, three midstream, and one downstream surface water samples.
  - Samples will be sent to a Department procured lab for VOCs and emerging contaminants (3 points) analyses, thus the analyses to be performed are EPA Method 624 for VOCs, EPA Method 522 for 1,4-Dioxane, and EPA Method 537 Modified for PFAS.
  - Collection of QA/QC sampling in accordance with DER-10
  
- Investigate the shallow overburden and deep overburden groundwater quality in the New York study area. Determine groundwater flow direction and correlate the results with solvent levels seen on the other side of the border for source determination.

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- Installation of 4 pairs of overburden monitoring wells. Each pair will be advanced to approximately 35 and 65 feet with a 10-15 screen length determined in the field based on geologic conditions encountered
  - Continuous split spoon sampling with geologic soil classification
  - Development of installed groundwater monitoring wells
  - Groundwater level measurements
  - Collection of groundwater samples via low-flow groundwater sampling for analysis by EPA Method 624 for VOCs, EPA Method 522 for 1,4-Dioxane, and EPA Method 537 Modified for PFAS.
  - Samples will be sent to a Department procured lab for analyses
  - Collection of QA/QC samples in accordance with DER-10
  - Collection and disposal of investigative derived waste
  - Utility mark out and subsurface investigation as necessary
- Investigate the impacts to existing water withdrawal wells identified within the study area to determine if there are any impacts to those water supplies.
    - Redevelopment of wells if necessary
    - Collection of samples from up to nine monitoring wells using low-flow sampling methodology or other approved methodology
    - Sampling analytes include VOCs and emerging contaminants (Only 3 wells), thus the analyses to be performed are EPA Method 624 for VOCs, EPA Method 522 for 1,4-Dioxane, and EPA Method 537 Modified for PFAS.
    - Samples will be sent to a Department procured lab for analyses
    - Collection of QA/QC samples in accordance with DER-10
    - Collection and disposal of investigative derived waste