



Contract Details

Client:
New York State Department of
Environmental Conservation

Contract amount:
\$446,264

Contract Dates:
4/11 - 12/11

Carriage Cleaners

Soil Remediation

Carriage Cleaners is an active dry cleaning business located at 2101 Monroe Avenue in the Town of Brighton, Monroe County, New York. The Site is located on a 0.35 acre commercially zoned parcel on the corner of Monroe Avenue and Brooklawn Drive. The area surrounding the Site is densely populated with residential and commercial structures.

The Site has been operated as dry cleaners for more than 25 years, with Carriage Cleaners operating the last 15 years. It is adjacent to a petroleum spill (Spill Number 0306131) which occurred at the Former Newcomb Oil/Citgo Gasoline Station located at 2087 Monroe Avenue and within approximately 300 feet of a Class 2 Inactive Hazardous Waste Disposal Site (HW ID No. 8-28-128) identified as the Former Speedy's Cleaners site at 2150 Monroe Avenue. The main contamination is perchloroethene (PCE) which is a dry cleaning chemical that was released from a damaged sewer line.

Throughout the project Carriage Cleaners remained open for business. OP-TECH was called upon to remediate a PCE spill from the soil surrounding the broken sewer line as well as install a soil vapor and groundwater extraction (SVE/GWET) system to treat PCE that had spread beyond the immediate spill area. Approximately 200-tons of non-hazardous soil was excavated around the existing sewer pipe; a temporary by-pass sewer line was installed during excavation. A structural shoring system was utilized to support excavation activities. Vibration monitoring was conducted throughout the excavation work to ensure there was no adverse effect to the Carriage Cleaners or surrounding structures. The excavated area was treated with a potassium permanganate compound to oxidize any organic contaminants and an injection treatment system was installed. In addition, five Soil Vapor Extraction (SVE) and four vacuum monitoring points/injection wells were installed inside the Carriage Cleaners building. An existing groundwater extraction well was modified to connect to the trailer where the SVE/GWET system will be housed. OP-TECH will also perform sampling and monitoring of the SVE/GWET to confirm effectiveness.

