

# Project Summary



## Multiple Station Audit Central and Western, New York



### Air Rotary/Hammer Drilling With Vacuum Containment

Typical air rotary and air hammer drilling in dry conditions leads to the production of large amounts of flying debris as the air clears the cuttings from the borehole. The production of flying debris at a retail petroleum station poses a potential threat to both the pedestrians and drill crew. In order to eliminate the presence of airborne cuttings the Vacmaster 4000 vacuum extraction hose was plumbed to the air rotary diverter. The introduction of the vacuum extraction hose to the borehole both eliminated the presence of flying debris and assisted in clearing the borehole of cuttings.

### Project Overview:

The objective of this project was the site characterization of 16 petroleum service stations across Central and Western New York. Test borings and monitoring well installations were advanced using direct push, hollow stem auger, and air rotary drilling techniques. As an additional precaution each soil boring and well location was pre-cleared using a vacuum excavation unit to depths of up to eight feet below ground surface. This project placed a strong emphasis on productivity while maintaining Parratt-Wolff's high safety standards.

- **Project Cost: \$60,000**  
\$60,000.00
- **Project Duration: 4 weeks**  
5 weeks
- **Project Completion Date:**  
November 2010
- **Project Reference:**  
Confidential