



## **Site Assessment, Monitoring, and Groundwater Contaminant Remediation**

Pyramid was contracted to perform a long-term groundwater and soil monitoring program and contamination remediation at a project site located in Elon, North Carolina. The project originated due to the presence of residual petroleum contamination in the groundwater at the site resulting from a former gasoline fuel underground storage tank (UST) system. The release was discovered in 1998, initial investigative work began in 2000, and Pyramid began our monitoring program in 2001.

The initial monitoring program consisted of sampling and analyses of groundwater samples from monitor wells and nearby supply wells in the area of the subject property. Analyses in the fall of 2002 indicated elevated levels of MTBE, resulting in Pyramid's recommendation and implementation of a Mobile Multi-Phase Extraction (MMPE) event to remove these chemicals from the groundwater at the site. Further monitoring in subsequent years indicated fluctuating levels of contaminants, resulting in a second MMPE event in 2005.

Ultimately, continued elevated hydrocarbon levels at the site led Pyramid to recommend the installation of additional soil borings and monitor wells. Based on the soil and groundwater data, Pyramid performed soil excavation at the site to remove the soils that were acting as a source of groundwater contamination. After excavating, oxygen infusion chemicals were injected into the surficial aquifer zone to further remediate the contaminated area.



The monitoring and remediation performed by Pyramid at the 0.8 acre site has resulted in acceptable contaminant concentrations across the property.

The North Carolina Department of Environment and Natural Resources (NCDENR) has recently (March of 2012) issued a Notice of No Further Action for the site, confirming the success of Pyramid's monitoring and remediation methods.