

Fractured Bedrock Formation Case History

Pennsylvania

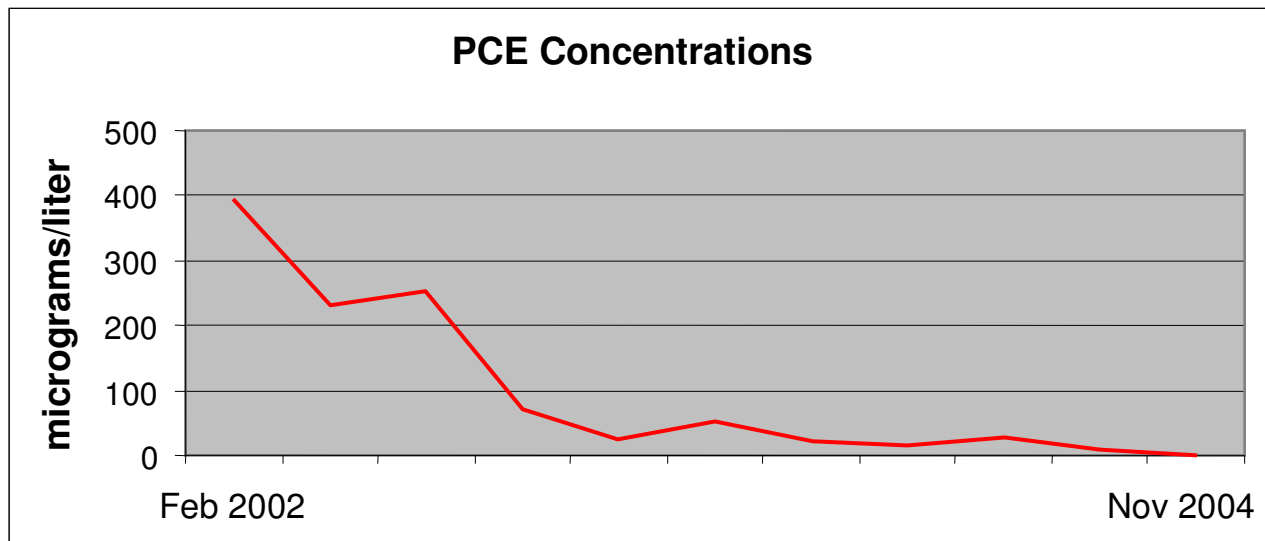
The Accelerated Remediation Technologies, LLC, (ART) Integrated Remediation Technology was installed at an operating, industrial laundry facility to remedy groundwater in a fractured bedrock geologic formation.

Contaminant(s) of concern: PCE

Site Description: The site is located in eastern Pennsylvania and the subsurface consists of silty clay to depths ranging from 10 to 60 feet underlain by limestone and dolomite (Epler Formation, Beekmantown Group). Groundwater flow occurs in secondary porosity along solution channels or bedding and fracture planes in the rock. Depth to groundwater at the site is approximately 90 feet below grade. Groundwater was impacted by Tetrachloroethene (PCE) and other chlorinated compounds. Site area exceeded eight acres.

Site Remediation History: PCE concentrations in groundwater prior to the ART Technology implementation were 402 ppb at the point of compliance. An existing soil vapor extraction system was retrofitted to accommodate the ART Technology and a compressor was installed to provide air sparging to the ART wells. One new well and two existing wells were retrofitted to complete the ART installation. Total depth of the wells was approximately 110 to 120 feet below ground surface.

ART Technology Remediation Results



Summary: Within nine months, the ART Technology had reduced contamination to below the Action Level of 50 ug/l at the point of compliance well, more than 40 feet from the nearest ART installation. For a 2 year time frame, the average contamination levels were maintained below the action level and are currently at NON-DETECT. **The client has received a letter of closure from the PADEP.**