



PROJECT DESCRIPTION

FORMER DRYCLEANER LOCATION, THORNTON, COLORADO

VOLUNTARY CLEANUP PROGRAM

Tetrachloroethene (PCE) had been released to the subsurface from a former dry cleaner located within a shopping center and LTE used comprehensive assessment techniques inside the building to delineate the source area. Impacts permeated stiff silty clay residuum and hard fractured claystone and sandstone bedrock. The plume extended several city blocks, due to the length of time since the release occurred, with parts per million-level groundwater impacts at the downgradient property boundary. PCE concentrations in groundwater in the source area exceeded 168 milligrams/Liter (mg/L).

LTE was retained to develop a remedial alternative to address the PCE impact to soil and groundwater at this site in 2007. Additional site assessment activities were conducted in the exterior portion of the site prior to pilot testing in 2007. Following the successful pilot test and approval for use of the BOS 100® product by the CDPHE, a treatment program was designed to remove the source-area soil and groundwater PCE impact located within the structure's footprint. The source area remedy was installed during October 2008 in the unit formerly occupied by the dry cleaner and the adjacent unit to the west.

HIGHLIGHTS

Following the successful installation of the BOS 100® remedy in the source area, temporary monitoring wells were installed to monitor the progress. In September, 2009 a second round of BOS 100® injections were completed in a wider range of injection depths when compared to the initial injection program. Concentrations of PCE in the source-area groundwater have been reduced between 84.7% and 98.9%.

