

PROJECT SNAPSHOT

Simultaneous Treatment of Eight Source Zones

TCH

Location: Memphis, TN

Client: Confidential

Contamination: Mix of CVOCs

Volume: 49,800 cy

Goal: Reduce CVOC concentration to 1 mg/kg

Number of Heaters: 367

Duration: 6 months of operation

Mass Removed: 12,500 lbs.

WHAT MAKES THIS PROJECT UNIQUE?

TCH was utilized to simultaneously treat eight separate source zones containing chlorinated solvents in tight loess (silt/clay) above the water table. Turn-key unit treatment cost, including all utilities, was \$79 per cy.

This project received the 2009 Secretary of Defense Environmental Award.

Important Project Details

- **Approach:** Energy was delivered through the thermal conduction heater borings and vapors were extracted from 68 vertical vacuum wells. A vapor extraction and capture system, including a surface cover and vertical vacuum wells next to heater borings, provided for effective pneumatic control and capture the CVOC vapors. A central treatment system, based on condensation and granular activated carbon filtration, was used to treat the vapors.
- **Results:** Post-treatment soil sampling results showed that the remedial goals were achieved in all 8 treatment areas. Soil concentrations of all contaminants were reduced from over 1,000 mg/kg (indicating the presence of DNAPL) to below 1 mg/kg in all samples.



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