



SOIL VAPOR EXTRACTION PILOT STUDY ACTIVITIES

HEAVY MACHINERY MANUFACTURING FACILITY PEORIA, ILLINOIS

Client: Private Consulting Firm
Contaminants: Chlorinated Hydrocarbons
Impacted Matrix: Unsaturated Soils
Duration: 24-Hours

Project Specifics: SESCOIENCES was contracted to assess whether or not vadose zone conditions were favorable for chlorinated hydrocarbon reduction utilizing SVE remedial technologies.

Pilot testing activities were implemented within the process metals recycling area of the facility, targeting impacted soils located beneath a concrete slab floor.

Limited vadose zone thickness and an elevated water table, provided for a challenging SVE application scenario. Applied vacuum levels and formation response were closely monitored to derive the maximum vapor recovery rate, without the production of ground water.

Pilot study activities generated the following site specific technology evaluation criteria: air flow rates vs. formation response, vacuum levels vs. formation response, radius of influence, air emission discharge calculations, and interpreted geological zone influence.

Current Site Status:
Full Scale Implementation

