

Electrical Resistance Heating in 90-foot Bedrock Sequence

Clarks Summit, Pennsylvania

Project Summary

Remediation goals:

- 483 lbs VOC removal or 1,640,000 kWh applied

Site Characteristics

- Treatment volume: 11,100 yd³
- Vadose & Saturated zone: sand/clay over sandstone bedrock sequence
- Baseline concentrations
 - 46,000 µg/L TCE in water
 - 527 mg/kg TCE in soil



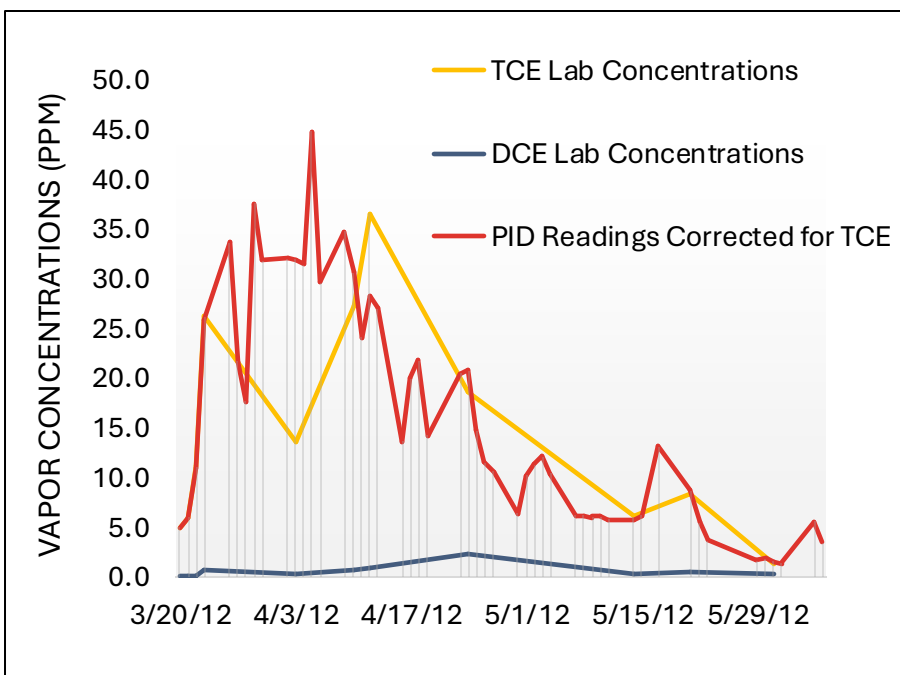
ERH Electrode Field Construction

Operations

- Treatment adjacent to active manufacturing facility
- Total run time: 91 days
- Industry first-treatment of CVOC in 90ft thick bedrock layer

Results

- 1,640,000 kWh applied
- Soil: Removed 399 lbs of TCE
- Groundwater: 99.9% reduction



TCE and DCE Vapor Concentrations Over Time