# In Situ Thermal Remediation under Active Railroad Tracks

Brandywine Superfund Site, MD

## Remediation Goals

 Drinking water MCLs for TCE (5 µg/L) and 1,4-DCB (75µg/L)

### Site Characteristics

- Treatment volume: 49,000 yd<sup>3</sup>
- Vadose & saturated zone: silt, sand and clay in a semi-confined aquifer
- Baseline conditions: residual DNAPL in clay back diffusing into aquifer
- Sheet pile electrodes

### **Operations**

- Industry first: in situ thermal remediation under active railroad tracks
- Total run time: 206 days
- 277 kWh/yd<sup>3</sup> applied

#### <u>Results</u>

• 99.9% reduction for TCE

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- 99.5% reduction for 1,4-DCB
- 1,700 pounds of contaminant mass removed



ERH Electrode Field Construction



Average Pre and Post ERH Sample Results

Contact TRS Group: info@thermalrs.com

#### Safe. Fast. Certain. Guaranteed.