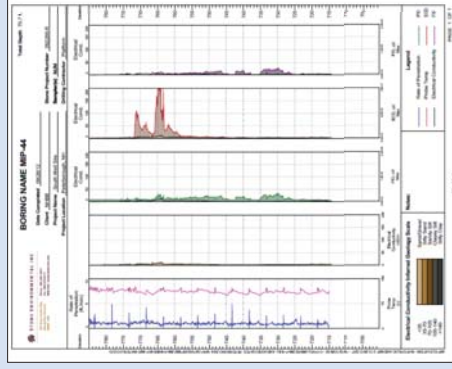
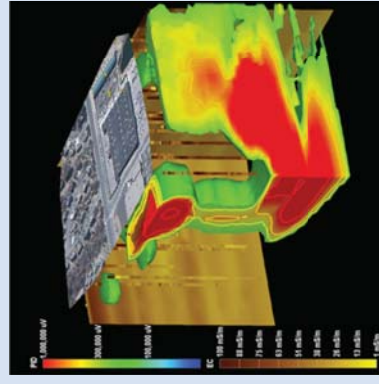


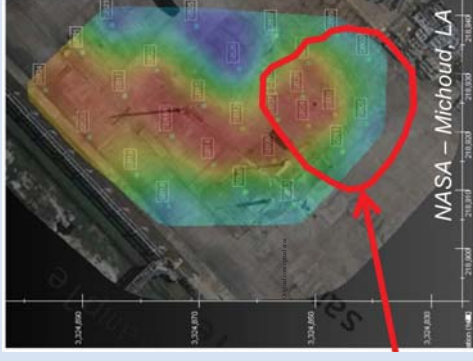
HRSC Technologies

- Direct Sensing/Screening
- Membrane Interface Probe (MIP)
- Hydraulic Profiling Tool (HPT)
- MIP and Hydraulic Profiling Tool (MIHPT)
- Electrical Conductivity Logging
- Cone Penetrometer (CPT)
- Ultra Violet Optical Screening Tool (UVOST)
- Tar-specific Green Optical Screening Tool (TarGOST)
- Waterloo Advance Profiling Tool
- Discrete Fracture Network (DFN) Approach
- Borehole Geophysics (packer testing, borehole flow meters, etc.)
- Mobile Field Laboratory



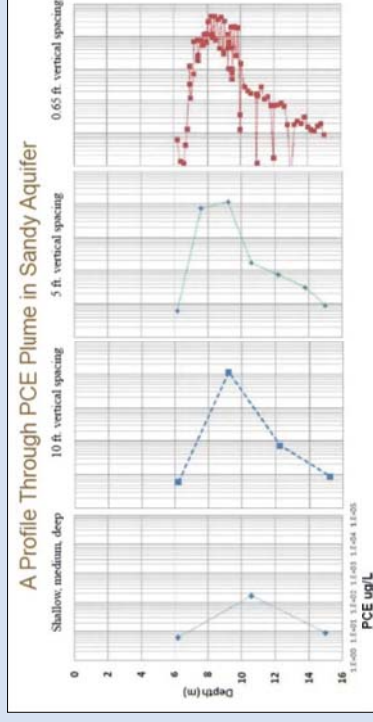
Get the Treatment Zone Right

Target zones before and after HRSC



Original conceptual area

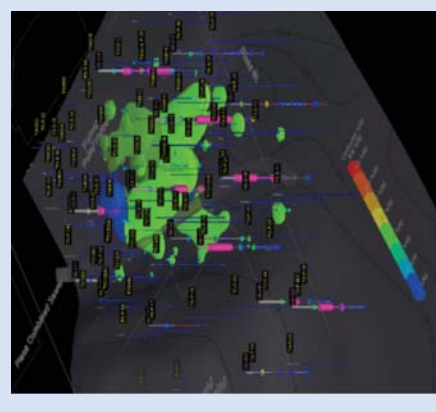
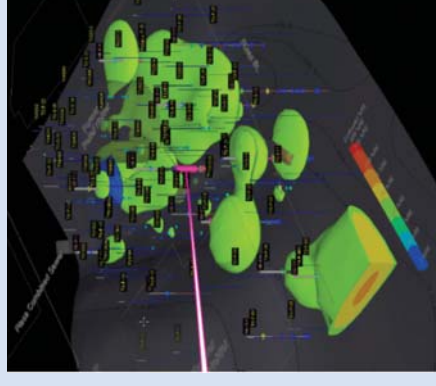
Understand the hydrogeology and site



For more information, contact Cascade Thermal: Jim Galligan, jgalligan@cascade-env.com

Optimize the Remedy

Only treat what exceeds your goals



Original

Final

HRSC investigation before thermal = Good investment

- Typically <5% of thermal remedy cost
- Reduce uncertainty, close data gaps

Stop at the right time

- Interim sampling/profiling
- Know the progress

How Cascade can help you:

- We have the tools
- We help nail the CSM
- We provide the shortest path to solving the problem