

Real Time Data Collection and Interpretation

New Hampshire Perspective

November 20, 2008



Overview

- History of openness to new techniques
 - Equal or better understanding of CSM (science)
 - Cost effective investigation/remediation (\$\$)
 - Potentially quicker resolution of sites (time and results)
 - Quality of data sufficient for decision
 - Better understanding of CSM
- Department position - RTD is one of available tools
 - Not a barrier
 - Not a specific advocate
- Generally work with consultants

November 20, 2008



Application

- Department deals with diverse universe of contaminated sites
- Some techniques more appropriate for specific contaminants (coal tar/MGP/creosote, chlorinated solvents, metals)
- Competes with more traditional approaches (\$\$, science, time, results)

November 20, 2008



Challenges

- Requires experienced and well trained professionals in the field
- Can require more time from parties in developing work scope and QA/QC including more Department time
- Comparison of FAM to laboratory results
 - Must be willing to evaluate how well the results correlate

November 20, 2008



Challenges (cont)

- Initial costs and planning time may be substantially more - long term benefits (\$\$, science, time and results)
- Good communication and working relationship between project manager and consultant

November 20, 2008



New Hampshire Experience

■ XRF

- Number of sites (+/- 12) where worked very well for lead – investigation and remediation
- One site had good experience with looking for copper
- Less success with arsenic and tin

November 20, 2008



Experience (cont)

- TarGost (3-5 sites)
 - MGP sites and creosote wood treatment site – delineating NAPL
- MIPS (3-5 sites)
 - Several large chlorinated solvent sites – delineate DNAPL source area
- Less experience with CPT, EC and HPT
- Field GC - longer history of use

November 20, 2008



Summary

- Open to new techniques that help do a better job (\$\$, science, time/results)
- Experienced and well trained personnel is critical (along with QA/QC and SOW)
- Potential opportunity
 - Use QA/QC or decision trees approved in other states – facilitate review
- RTD can be used at sites – another tool

November 20, 2008

