

**NEW COST AND PERFORMANCE CASE STUDIES  
DRAFT, December 9, 2004**

**REMEDIATION TECHNOLOGIES - SUMMARY TABLE**

<b>Agency/Source</b>	<b>Number of Reports Identified to Date</b>
<b>Total Number of Case Studies: 15</b>	
Army	1
ESTCP	1
EPA	9
State Coalition of Remediation	4

**SITE CHARACTERIZATION & MONITORING TECHNOLOGIES - SUMMARY TABLE**

<b>Organization/Source</b>	<b>Number of Reports Identified to Date</b>
<b>Total Number of Case Studies: 16</b>	
EPA (some with other Federal agencies)	13
ESTCP	1
ITRC	2

### LONG-TERM MONITORING/OPTIMIZATION

<b>Organization/ Source</b>	<b>Site Name/Report Title, Date</b>	<b>Year</b>
<b>Total Number of Case Studies: 1</b>		
ITRC	Remediation Process Optimization: Identifying Opportunities for Enhanced and More Efficient Site Remediation	September 2004

### REMEDICATION TECHNOLOGY ASSESSMENTS

<b>Organization/ Source</b>	<b>Site Name/Report Title, Date</b>	<b>Year</b>
<b>Total Number of Case Studies: 2</b>		
ITRC	Technical and Regulatory Guidance Document for Constructed Treatment Wetlands	December 2004
Interagency (Army, Navy, Air Force)	Principles and Practices of Enhanced Anaerobic Bioremediation of Chlorinated Solvents - August 2004	August 2004

## REMEDIATION TECHNOLOGIES - DETAILS

Organization/ Source	Site Name/Report Title, Date	Technology
<b>Total Number of Case Studies: 15</b>		
Army	Fort Lewis East Gate Disposal Yard (Not complete)	Thermal Treatment (in situ) - Groundwater Battelle abstract available
ESTCP	Cyclodextrin-Enhanced In Situ Removal of Organic Contaminants from Groundwater at Department of Defense Sites - May 2004	Soil Flushing
EPA/Various	Frontier Hard Chrome Superfund Site, Vancouver, WA	In situ chemical reduction (using ECOBOND) + in situ solidification/ stabilization (using cement-based grout)
	Confidential Site/Confidential Location	Steam, hot air, and ZVI injection
	California Gulch Site, Leadville, CO	Stabilization
	Cleaners #1, Kent, WA	In situ bioremediation (HRC)
	T.H. Agriculture and Nutrition Site, O.U. 2, Albany, GA	Thermal Desorption
	Onalaska Municipal Landfill, Onalaska, WI	Pump and Treat
	Charleston Naval Complex, SC	In Situ Thermal (ERH)
	Hunter Army Airfield, GA	In Situ Thermal (ERH)
	Western Springs Dry Cleaner, IL	In Situ Thermal (ERH)

<b>Organization/ Source</b>	<b>Site Name/Report Title, Date</b>	<b>Technology</b>
SCRD	4 case studies (each case study will contain a roll-up of profiles that address the same/similar technologies)	Bioremediation (in situ); Chemical oxidation (in situ); SVE

## SITE CHARACTERIZATION & MONITORING TECHNOLOGIES - DETAILS

Organization/ Source	Site Name/Report Title	Technology Category
<b>Total Number of Case Studies: 16</b>		
EPA-documented projects (some based on work by other Federal agencies)	Site Characterization Technologies for DNAPL Investigations	Triad-Related Strategies/Techniques
	Performance Monitoring of MNA Remedies for VOCs in Ground Water	Triad-Related Strategies/Techniques
	Applications of Synthetic Aperture Radar (SAR) to UXO Delineation	Unexploded Ordnance Characterization
	Supervisory Control and Data Acquisition using Programmable Logic Controllers at the Sprague Road Superfund Site	Sensor Technologies
	Supervisory Control and Data Acquisition using Programmable Logic Controllers at the Madisonville Creosote Works Superfund Site	Sensor Technologies
	Programmable Logic Controllers and Ozone Analyzers at the Moffett Federal Airfield Site	Sensor Technologies
	D-Recon and EOL Geophysical Survey Techniques For Characterizing Hydrocarbon-Contaminated Soils at the Hotel Pier Site, Pearl Harbor, Hawaii	Sensor Technologies
	Use of In-Situ Sensors to Monitor Groundwater Velocity at the China Lake Naval Air Weapons System Site	Sensor Technologies

Organization/ Source	Site Name/Report Title	Technology Category
	Automated Sampling and Analysis of Trichloroethylene (TCE) and Hexavalent Chromium (Cr-VI) at the North Indian Bend Wash and Nevada Test Sites	Sensor Technologies
	Use of Membrane Interface Probe Technology for Detection of VOCs at the Sol Lynn/Industrial Transformer Superfund Site	Sensor Technologies
	Use of Capacitance Probes to Measure Soil Moisture at the Badger Army Ammunitions Plant	Sensor Technologies
	Ross Metals, TN	Triad-Related Strategies/Techniques
	Poudre River, CO	Triad-Related Strategies/Techniques
ESTCP	Man-Portable Adjuncts for the Multi-Sensor Towed Array Detection System (MTADS) (UX-9811) - June 2004	Unexploded Ordnance Characterization
ITRC	Technical and Regulatory Guidance for Using Polyethylene Diffusion Bag Samplers to Monitor Volatile Organic Compounds in Groundwater	Organic Chemical Characterization
	Strategies for Monitoring the Performance of DNAPL Source Zone Remedies	Miscellaneous/Leak Detection