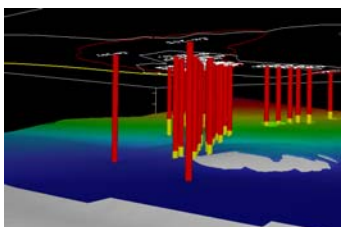


Site Characterization: ESS staff have extensive experience with assessment and characterization of sites ranging from discrete commercial transactions to waterfront redevelopment, PCB sites, DOD and federal Superfund sites. ESS combines comprehensive strategic planning with the latest field investigation techniques, data interpretation, alternative analysis, and contaminated media management, to provide feasible and practical remediation solutions.



Data Management, Analysis, and Contaminant Transport Modeling:

ESS uses GIS/Key™ to store chemical, geologic, and hydrogeologic data to efficiently manage the reporting and visualization of complex site conditions. ESS staff members also have extensive experience with numerical and analytical modeling of both simple and complex hydrologic systems. Our services include development of conceptual hydrologic and geologic models, groundwater and surface water flow modeling, TMDL development, time of travel evaluations, nutrient and contaminant fate and transport modeling, independent technical review, and expert witness and litigation support.



Remedial Design: As part of its ongoing work in site remediation, Brownfields development, and hazardous waste management, ESS assesses and evaluates the feasibility and practical implementation of a range of treatment technologies, including mainstream, alternative, and innovative techniques. ESS considers technical feasibility, field deployment, and regulatory compliance of each proposed technology as a critical component of remedial feasibility and design planning.



Remedial Monitoring: ESS has performed long-term operation maintenance and monitoring at a variety of sites ranging from federal Superfund Sites with multi-media treatment systems to limited petroleum remediation sites. Our professional staff have a wealth of experience in developing site-specific monitoring plans, construction management, and monitoring of complex physical and chemical treatment systems and capping/containment approaches.



SIN 899-8 & SIN 899-8RC Services Offered:

Site Characterization

- Soil/Groundwater Impact Studies
- Soil Gas Surveys
- Indoor Air Monitoring
- Landfill Leachate Evaluations
- Surface Water/Sediment Sampling
- NAPL and DNAPL Delineation
- Hydrogeological Characterization and Modeling

Data Analysis and Contaminant Transport Modeling

- Data Management and Visualization
- Conceptual Model Development
- Model Calibration and Validation
- Predictive Analysis of Proposed Remedial Actions
- Pump Test Capture Zone Analysis
- Technical Peer Review and Expert Witness Services
- Landfill Performance Evaluations

Remedial Design

- Feasibility Studies
- Remediation Strategy Development and Planning
- Conceptual and Detailed Cost Estimating
- Turnkey Design/Build Services
- Process, Instrumentation, and Control Design
- Design Plans and Bid Specifications

Remedial Monitoring

- Contractor Procurement and Management
- Health and Safety Monitoring
- Ambient Air Monitoring
- System Start-Up
- Operation and Maintenance Services
- Post-remediation Site Inspections and Monitoring

*The offered services do not include remediation related to Transportation, Storage, Treatment and/or Disposal of Hazardous Waste services under SIN 899-8.