

US EPA ARCHIVE DOCUMENT

In Situ Chemical Oxidation Field Demonstration (U.S. Marine Corps Recruit Depot, Site 45, Parris Island, SC)

Abstract

Several agencies are collaborating in the field-scale demonstration of in situ chemical oxidation at a former dry cleaning site where the ground water is contaminated by perchloroethylene and trichloroethylene. Fenton-driven and persulfate oxidation will be used to target organic contaminants in the subsurface. This project will involve:

- A detailed assessment of the fate and transport of the injected oxidants
- Use of stabilizers to enhance the transport and persistence of the oxidant in the subsurface
- A detailed analysis of contaminant transformation

Collaborators

Environmental Resources Management
South Carolina Department of Health and Environmental Control
U.S. EPA Ground Water and Ecosystem Restoration Division
U.S. EPA Region 4
U.S. Navy
Washington State University



EPA Geoprobe crews collect aquifer core samples used for site characterization and treatability studies at the Parris Island former dry cleaning site