

PROJECT PROFILE - OXIDATION REMEDIATION

Ft. Montgomery, NY

May 2003



A portion of the 450' trench network.



Objective:

Installation of an Ozone Oxidation Remediation System for subsurface groundwater and soil contamination.

Solution:

SCE installed a 26 well Ozone Oxidation Remediation system in a retail setting. This in situ chemical oxidation process utilized ozone (O₃), hydrogen peroxide (H₂O₂), oxygen (O₂), and air delivered into the subsurface via nested injection points. The chemical oxidation process results in the rapid degradation of dissolved contaminants including benzene, toluene, ethyl benzene, and xylenes (BTEX); naphthalene; methyl tert-butyl ether (MTBE); tert-butyl alcohol (TBA); and chlorinated solvents.

This system is capable of delivering high concentrations of ozone gas (up to 100,000 ppmv) at elevated flow rates as compared to many other ozone injection systems. This allows ozone to be effectively distributed to the subsurface.

SCE installed the system in a 450 foot trench. Company technicians performed the excavation, piping, backfill, fence compound installation, bollard installation, concrete work, T&D, and paving on-schedule and under budget.

SERVICES PROVIDED

- Remediation System
- Tank Removal
- Demolition

