

HC-2000 Solvent Bioremediation
Location: Upstate New York
Client: Major Bottling Company
Contract Amount: \$130,000

PROBLEM

Soil and groundwater under an 8,000 square foot building and paved parking lot was contaminated with chlorinated and non-chlorinated solvents. Remtech was engaged to manufacture a mobile treatment system (\$65,000) to deliver its proprietary native bioremediation acceleration technology - HC-2000 at multiple bottling sites.



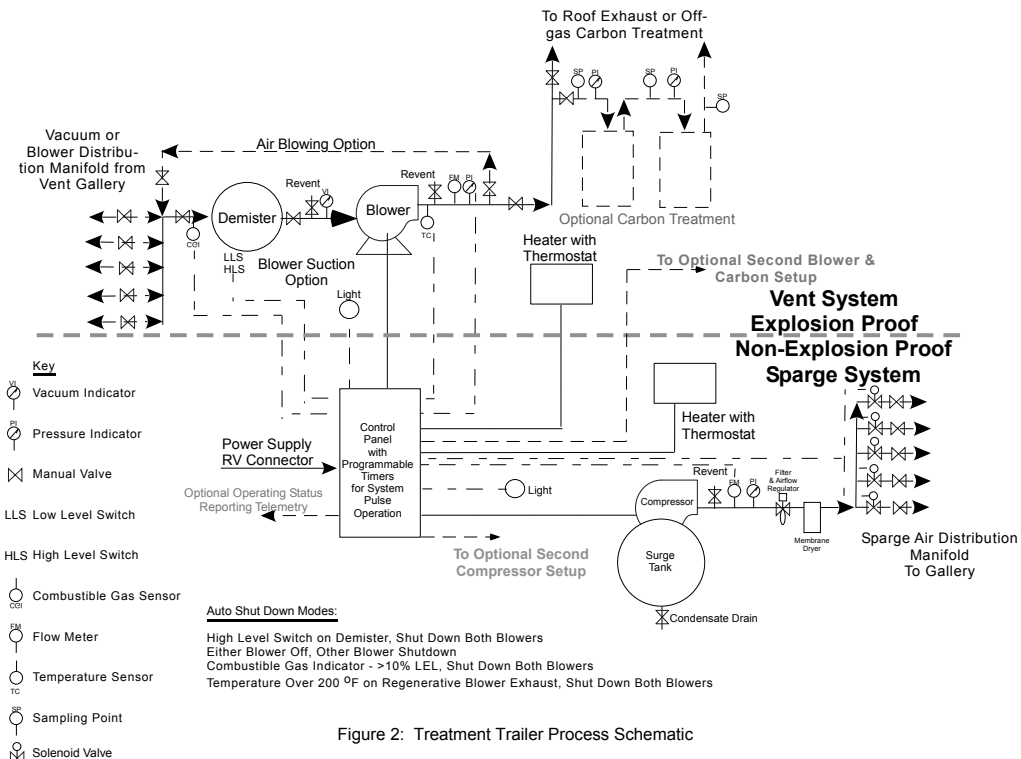
Remtech Mobile Treatment System

SOLUTION

Remtech manufactured a mobile bioremediation trailer for the major beverage distribution company. This system is equipped with telemetry reporting and remote control. Remtech installed five air/enzyme injection wells and five vapor extraction wells to enhance treatment under the building and parking lot. Site geology consists of sandy CLAY and glacial till with a shallow groundwater (3 feet BLS). After 5.5 months of system operation, analyte concentrations were reduced: benzene - 100%, ethylbenzene - 100%, naphthalene - 95%, toluene - 95%, 1,2,4-trimethylbenzene - 97%, 1,3,5-Trimethylbenzene 85%, and total xylenes - 98%.

COST/BENEFIT

Remtech designed a mobile biosparge remediation system to work at multiple bottling company sites and successfully completed a remediation at their first site that would substantially reduce treatment system costs.



SOLVENT DEGRADATION CURVE @ NEW YORK SITE

