



## CL-out Bioremediation Study Chemical Plant - Toronto, Canada

During a pre-acquisition investigation of a chemical manufacturing facility, soil and ground water contamination was found. The contaminated soil was excavated for off-site disposal to expedite the property sale, but residual ground water contamination exceeded regulatory standards. CL-out bioremediation was implemented and augmented with air sparging to maintain high microbial activity. Following a single inoculation with CL-out, the ground water concentrations decreased by 85% to 99% in less than one month.

Contaminants (ppm)	Pre-treatment Sampling	Post-Treatment Sampling	
	9/14/00	9/15/00	9/29/00
Methylene Chloride	0.15	0.0063	0.0021
cis-1,2-Dichloroethylene	0.16	0.017	0.015
Tetrachloroethylene	0.47	0.0062	0.0035
Trichloroethylene	0.073	ND	ND
Vinyl Chloride	0.04	0.0037	0.0061