



OVERVIEW

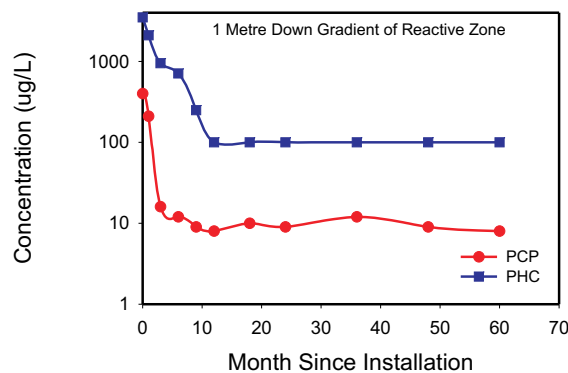
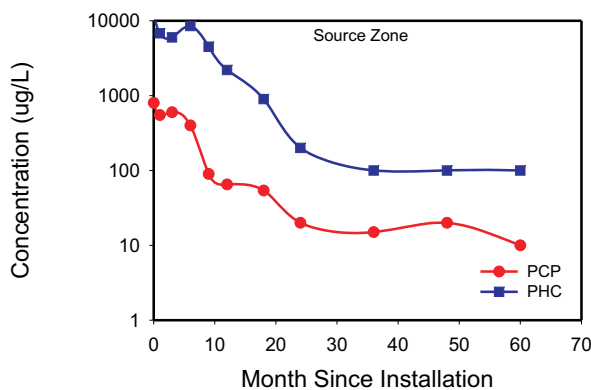
Vertex Environmental Inc. staff completed a remedial program for groundwater and soil impacted by pentachlorophenol (PCP) at a site in western Canada. Historical use of the biocide PCP at a wood preservation facility resulted in soil and groundwater impacts. The plume covered an area of approximately 1,000 m² and threatened a nearby surface water body. A two component remedial system was installed with the objectives of treating the source zone while mitigating impacts to the nearby surface water body. Both strategies used enhanced in-situ bioremediation as the treatment. The approach implemented provided the client with a cost savings of greater than \$1 million over a 10 year life span.



PROGRAM

- Compounds of Concern
 - Pentachlorophenol
 - Petroleum Hydrocarbons
- Geology - Glaciofluvial deposits
- Source Zone Treatment
 - Oxygen Releasing Materials
 - Direct Placement and Injection
- Plume Treatment
 - Aerobic Reactive Zone using Wells
 - Oxygen Releasing Devices
- Treatment time frame

Within 3 months of installation of the aerobic reactive zone, PCP and PHC concentrations at down gradient wells decreased to below the applicable drinking water standards and were maintained for the duration of the monitoring period. The source zone was subjected to 5 injection events over a 14 month period with PCP and PHC concentrations decreasing to below the applicable drinking water standards.



Vertex combines strong theoretical understanding with practical experience to properly plan and implement the right remedial program for your site. Selecting Vertex to undertake your remediation project allows you to access a wealth of experience and knowledge.