



OVERVIEW

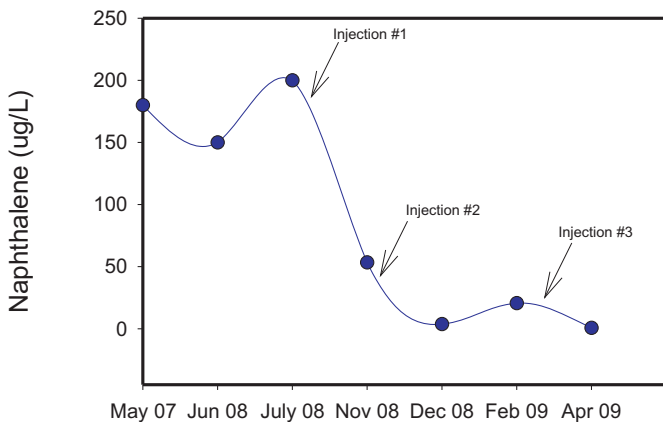
Vertex Environmental Inc. staff have designed, constructed and operated a variety of systems to treat polycyclic aromatic hydrocarbons (PAHs) within soil and groundwater. PAHs tend to be persistent within the subsurface resistant to biological treatment. Some PAHs such as benzo[a]pyrene are carcinogenic and can pose a risk to humans and the environment. At a former gasoline dispensing facility in southern Alberta, Vertex conducted a in-situ chemical oxidation program to treat the PAH naphthalene within groundwater.

PROGRAM

- Compounds of Concern
 - Naphthalene
 - BTEX
 - Petroleum Hydrocarbons F1 to F2
- Geology - Fill and silty sand
- Oxidant
 - RegenOx™
- Method of application
 - Direct placement
 - Direct push
- Treatment time frame
 - < 1 year



The results of the in situ chemical oxidation program indicated that the naphthalene could be effectively treated using the chemical oxidant RegenOx™. Monitoring over the long term as well as at down gradient monitoring wells indicated no rebound reactions were occurring nor were any by-products of concern generated by the chemical oxidation process.



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.