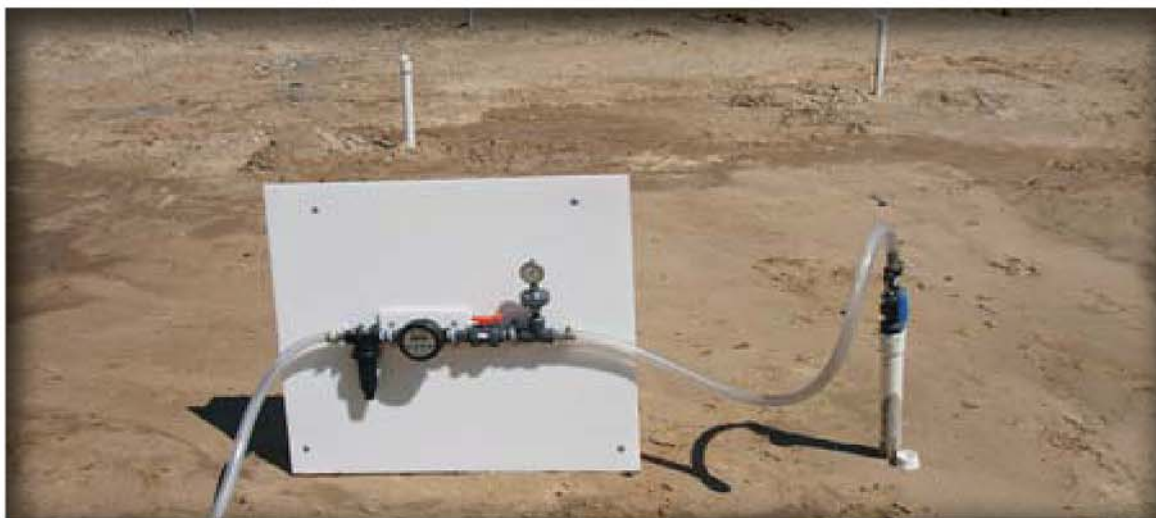




# VERTEX Environmental Inc.

## CASE STUDY PHCs

### Vertex Saves Wells without Disrupting Residents



#### Background

A spill near a residential area in Quebec released petroleum hydrocarbons into the underlying groundwater and soil. The accident posed a risk to nearby wells, endangering the local water supply.

PHC contaminants included: Benzene, Toluene, Xylene

#### Solution

Vertex was employed to design and optimize a highly efficient, yet cost-effective in-situ remediation program. A chemical oxidation process was identified as the most suitable. A team of experts proceeded to:

- Acquire all relevant permits
- Analyze treatment parameters across multiple applications (unconfined sand formations, grasslands)
- Inject an oxidant solution of activated persulphate with a hydrogen peroxide activator

Over 30,000L of oxidant solution was effectively distributed through the impacted area using a vertical well process. Remediation objectives for BTEX, F1 & F2, and F3 & F4 were met with no ongoing operation and maintenance costs.

#### Benefit

Disruptions for nearby residents were kept to a minimum and nearby structures were not affected by the remediation efforts. A Record of Site Condition was obtained, enabling residential land development to proceed.

**For more information contact: 519.653.8444 [www.vertexenvironmental.ca](http://www.vertexenvironmental.ca)**

