



OVERVIEW

At a trailer park in Eastern Ontario, two heating oil tanks released heating oil into the underlying unconsolidated and fractured media. Following excavation of the unconsolidated material, an in-situ chemical oxidation program was completed to address the petroleum hydrocarbon plume and associated free phase within the fracture rock.

- BTEX (concentration 1,920 µg/L)
- F1 to F4 (concentration 59,200 µg/L)
- Free Phase up to 3 cm thick

SCOPE OF WORK

- Acquired all relevant permits to complete the remediation program
- Designed and optimized an *in-situ* program to maximize treatment efficiencies
- Implemented a program that minimized capital expenditures and infrastructure



THE VERTEX APPROACH

- In-situ chemical oxidation
- Multiple applications using injection wells
- Injection of chemical oxidant
 - > 5,400 kg of RegenOx
- Injections enhanced using push-pull hydraulic methodology

OUTCOME

- Over 66,700 L of oxidant solution delivered to impacted areas
- All free product treated
- No interruption of tenants or replacement of tenants required
- Down gradient drinking water supply well protected with no quality issues
- Groundwater treated to drinking water quality within 15 months



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.