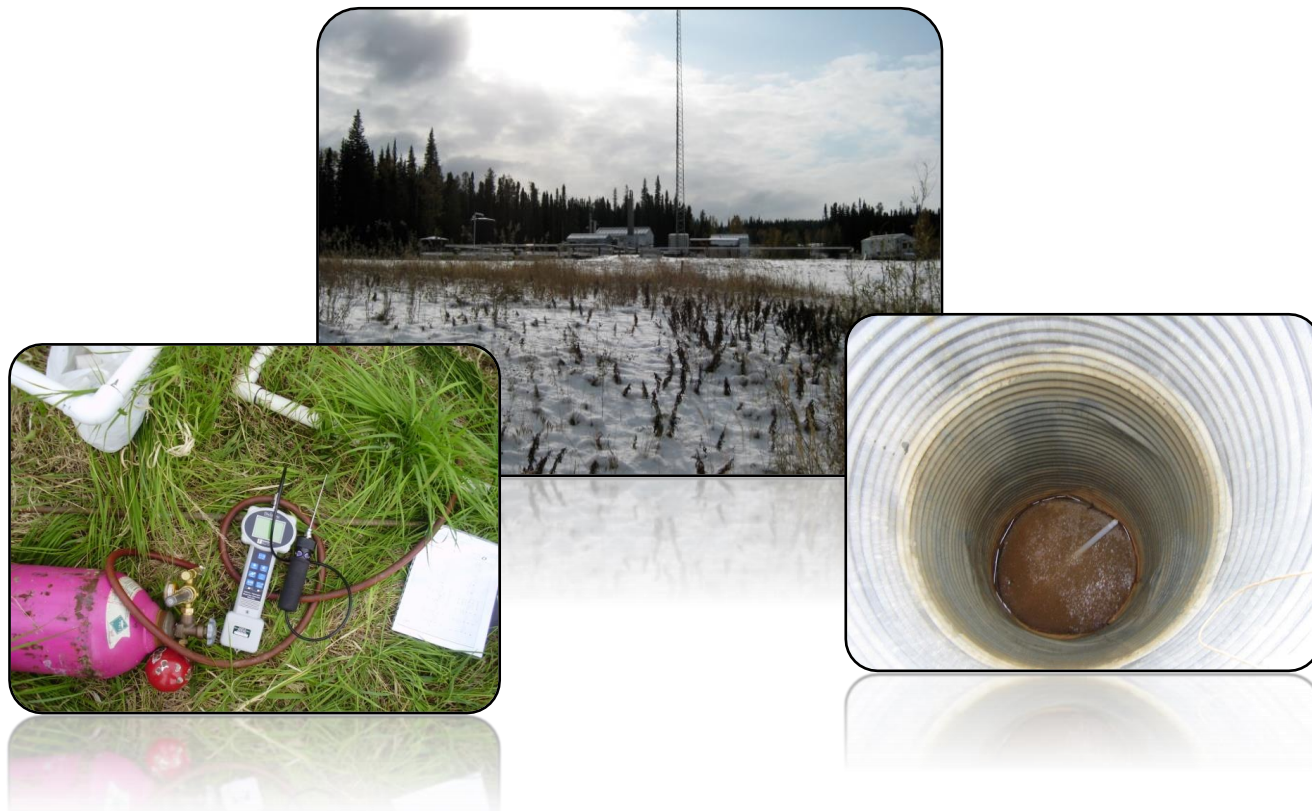


Horizontal Air-Sparge System



Project Profile

Hydrocarbon contaminated groundwater migrated to an adjacent meandering creek. The source of the contamination was a former flare pit located on a peninsula generated by the creek.

Issue

We considered excavation and off-site disposal not to be a viable remedial alternative due to the Site's remote location and the geological setting of the contaminated area.

Solution

SynergyAspen completed a hydrogeological conceptual site model to determine alternate options for in-situ remediation. Based on the high fluctuations of groundwater and the seasonal changes in groundwater flow direction, SynergyAspen designed a horizontal air-sparge system using an innovative design to remediate hydrocarbon contaminated groundwater prior to discharge to the adjacent creek.

Outcome

We successfully remediated the Site and, the innovative nature of this situation made the project eligible for tax credits under the Scientific Research and Experimental Development (SR&ED) program.