

## Company Profile

AMBER is a full service environmental consulting company that provides site characterization, soil sampling and monitoring, and remediation and reclamation. AMBER is a focused and responsive service provider. AMBER can deliver technically sound results and reports on time and within budget. Our strength is based on technical expertise that can be used to design and implement experimental and monitoring programs to meet client needs.

AMBER has the ability to assemble teams with formal training in a range of disciplines including agronomy, contaminant chemistry, hydrogeology and waste management, as well as extensive field experience in environmental site assessment and implementing remediation and site monitoring programs for the oil and gas industry. Our reports are peer reviewed and approved for release by members in good standing from professional organizations such as Alberta Professional Biologists, and Alberta Institute of Agrology. Where needed, Amber will source Engineering Services provided by third party independent suppliers.

AMBER has a long track record of working closely with oil and gas partners to provide environmental planning, site assessment and remediation services.



## Projects

From non-intrusive electromagnetic surveys to assess and map soil conductivity, to remediation technologies for treatment of salt-impacted soils, AMBER has worked on a wide diversity of sites and remediation treatments.

Over the years, AMBER has been involved and provided support for projects that include: construction monitoring, soil and water monitoring and remediation plans for clients in public and private enterprises. Below are some highlights of some of the projects that staff members have been involved in:

### REMEDIATION

- Conducted a phase II ESA for a county Municipal Public Works yard to characterize contaminant site conditions and assess the remediation option for a former storage tank site. Developed a site specific risk management program and monitored site until closure was achieved. Allowed the public works staff to maintain use of facilities while the remediation program was implemented. Some of the program involved drilling underneath a building to delineate contaminant migration.



- Developed an in-situ groundwater remediation program associated with historical oilfield activity in central Alberta. The design of the remediation plan met with approval from all stakeholders including operators, landowners and regulators.

Delineated salt and hydrocarbon impacted soil and groundwater associated with oil and gas facilities as well as contamination associated with underground storage tanks at former gas stations facilities.

## OIL & GAS PLANNING & RECLAMATION

Developed a conservation and reclamation approval for a natural gas pipeline. The project minimized disturbance of native prairie and historical resources in Alberta while maintaining efficient construction planning throughout the process. After construction, the reclamation assessment indicated relatively minor impact due to best management practices and thorough planning.

Conducted weed survey and management plans as well as developed surface reclamation programs to ensure that specified land was reclaimed to a compatible land use. Supervised the reclamation of former drilling sumps and assessed the success of reclamation programs.



## Safety and Environmental Training

AMBER maintains a safety program including regular safety meetings. Amber maintains safety program that includes vehicle maintenance, work alone policy and is a member of Alberta Construction Safety Association. AMBER has the ability to clarify and communicate complex concepts and/or procedures. AMBER maintains the professional staff and corporate resources to deliver training in:

- Reclamation assessment for certification
- Waste management
- Conservation and reclamation planning
- Environmental audits and site assessments
- Field sampling methods and equipment