

X-Terra Environmental Consulting Ltd.



**Suite 200-6002, 50th Avenue
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Ph: (780) 875-1442
Fax: (780) 871-0925**

“Your Environment is Our Business!”



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For all your Environmental Needs!

Company Profile

X-Terra Environmental Consulting Ltd. (X-Terra) is a close network of Environmental Consultants and Professionals committed to serving industry, striving for environmental compliance and excellence. Companies working within Crown and Environmentally sensitive lands are assisted by **X-Terra** to ensure governmental requirements and proposals are completed accurately. **X-Terra** allows a project to be approved and completed quickly within all applicable guidelines.

Our Commitment

We are committed to providing innovative, reliable and cost-effective services to industry, permitting project ease and acceleration. Through personal management of your projects, we promise to build and maintain effective communication and to provide consistent competence and reliability from the beginning of your projects to their completion.

Location & Contact Information

X-Terra has home offices located in Lloydminster, AB and Fort Mc Murray, AB. These locations allow our Team to be based within north western Saskatchewan and north eastern Alberta's oil patch. This will reduce mob/demob costs to your company. **X-Terra** consultants also work throughout Saskatchewan, Alberta, and the Northwest Territories in Canada's high arctic.

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Shawn Daschuk Cellular: (780) 881-0643

Curtis Riou Cellular: (780) 808-9465



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Services Provided

X-Terra can assist your company in obtaining project approvals with:

- 🌲 Saskatchewan Environment (SE) required Project Proposals and Environmental Protection Plans for working within Provincial Parks, Provincial Forests, Wildlife Development Fund Lands, Wildlife Protection Act Lands, native prairie, Endangered species habitat, etc.
- 🌲 Saskatchewan Agriculture Food (SAF) required Restoration Plans for projects working within crown owned lands, PFRA, etc.
- 🌲 Indian Oil and Gas Canada (IOGC) required Environmental Assessments and One and Five Year Facility Audits for projects working within First Nations' Lands.
- 🌲 Alberta Environment (AE) & Sustainable Resource Development (SRD) required EFR's, GFR's, TFA's and EIA assessment supervision.
- 🌲 Inuvialuit Land Administration (ILA) and Indian and Northern Affairs Canada (INAC) required Environmental Assessments for completing seismic, wellsite, and pipeline activities in the Northwest Territories.
- 🌲 Oil and gas wellsite, access road, and pipeline planning, construction monitoring and reclamation.
- 🌲 Low and Minimal Impact Lease Construction
- 🌲 Double strip soil conservation leases.
 - Timber salvage requirements.
- 🌲 Seismic exploration planning and monitoring.
- 🌲 Low Impact Seismic.
- 🌲 Avoidance Cat-Cut seismic lines.
- 🌲 Providing governmentally approved Environmental Monitors for projects occurring on crown and environmentally sensitive lands.
- 🌲 Providing Companies with Environmental Management Systems.
- 🌲 Water well Testing.



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Services (cont'd)

- 🌲 Wellsite, pipeline and access road Pre-Disturbance Assessments.
- 🌲 Governmental, First Nation and Public liaisons.
- 🌲 Erosion potential and mitigation planning.
- 🌲 Instructed an Environmental Monitoring course on seismic and wellsite operations in the Northwest Territories to the Inuvialuit people. The course was recognized by the Inuvialuit Land Administration (ILA).

Consultant Profiles

Shawn Daschuk - B.Sc. Land Use and Environmental Studies

Shawn's multidisciplinary degree in biology, chemistry, economics, and geography, has prepared him to work on many projects. Shawn has been working primarily in northwest Saskatchewan and northeastern Alberta. He has been involved in environmental planning and reclamation largely associated with seismic operations and wellsite/flowline construction planning and reclamation. Within these projects, Shawn has conducted initial site assessments, coordinated surface reclamation activities, supervised remediation projects, prepared Environmental Protection Plans, and managed contamination remediation projects.

The majority of the areas he has worked in have been deemed environmentally sensitive, such as First Nations' Lands, Prairie Farm Rehabilitation Lands, Wildlife Development Funds Lands, Duck's Unlimited Lands, Provincial Forest Lands, Provincial Park Lands, Wildlife Protection Acts Lands, High Arctic (Permafrost environments) etc.

Shawn has the required skills in coordinating and managing multi-disciplinary environmental impact assessments, and providing advice on a day to day basis regarding environmental affairs, policies and strategic planning. This service is often critical in attaining project approval in an increasing complex regulatory environment. Through the development of good relationships with local communities, Shawn is able to manage public information and participation to significantly reduce the time required to complete the approval process, and consequently can improve the economic viability of a project.

Since November of 2002 Shawn has been managing all the environmental aspects of the 3.5 Billion dollar Nexen Inc./OPTI Canada, Long Lake Project in Fort McMurray. This project is a SAGD/Upgrader project has exposed Shawn to the process, policy and procedures to obtaining environmental approvals and ensuring environmental compliance in the oilsands.



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Curtis Riou - B.Sc. (Honors) Environmental GeoScience

Curtis has 9 years experience in the oil and gas industry with an extensive knowledge of environmental mitigation and soil, water, and air sampling techniques. Curtis has acted as project lead for numerous projects for the oil and gas community working on environmentally sensitive government-owned lands including arctic and aeolian environments. Curtis has also performed many Phase I, II and III, Environmental Protection Plans, Project Proposals, Restoration Plans, pre-disturbance and reclamation studies. Curtis was previously employed by Saskatchewan Environment (SE) in the parks department for Greenwater Lake Provincial Park, Saskatchewan. This developed his understanding of governmental policies within Saskatchewan. Also involved was the development and communication of programs that educated stakeholders on the integrated resources management practices for the area. This involves knowledge of First Nation culture and customs, as they are a major stakeholder for the area.

Curtis also has experience as a Soil and Terrain Specialist on a Pipeline Inspection Team. This involved site terrain surveys and inspection to determine susceptible areas that would cause stress corrosion cracking in natural gas transmission lines. Curtis was also a part of an advisor committee of engineers from the University of Saskatchewan for Sask Water. The committee reviewed a discussion paper for the development of an integrated water management strategy for Saskatchewan.

Randy Slater - Environmental Consultant

Randy received a graduate diploma in Renewable Resources Technology at the Kelsey Institute, Saskatoon, SK in 1982. Prior to joining X-Terra, Randy was employed for 25 years with Saskatchewan Environment (SE) in the regulatory and compliance discipline. The last 10 years of this employment dealt with specifically managing SE's interests in industrial activities (primarily oil and gas, mineral exploration and utility) in Northwest and Central Saskatchewan. Randy has a thorough understanding of the principles of ecosystem and risk based management, environmental protection concepts, and environmental legislation and protocols used by SE in decision-making. Randy was a significant contributor to designing and implementing environmental review processes and program delivery strategies for the oil and gas, mineral exploration and utility industries in Saskatchewan. Working with SE has also provided Randy with extensive experience in consultation with various interest groups, First Nations, government agencies, and the public as well as a thorough understanding of the function and role performed by various government agencies in and outside of Saskatchewan. Randy has been working for X-Terra as an Environmental Consultant for the past year, specializing in oil and gas exploration and development projects in northwest Saskatchewan and working as an environmental consultant for a major SAGD project in northeast Alberta.



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Jon Lamnek - Diploma in Environmental Sciences (Monitoring & Enforcement)

Jon Lamnek has obtained a Graduate Diploma in Environmental Science with a major in Environmental Monitoring and Enforcement. This diploma focused predominantly on environmental law (provincial and federal levels), chemistry, sampling, assessment methods and reporting.

Jon Lamnek has a total of nine years in the Environmental Industry covering numerous aspects. Oil field experiences consist of drilling waste management, ground water sampling and analysis and data interpretation. Main and current experience lies within well site assessments, pipeline and access road planning and assessments, seismic program assessments as well as construction /reclamation monitoring for these projects.

Through X-Terra Environmental Consulting Ltd., Jon Lamnek has handled projects on private land, provincial crown land (AB and SK) and land under Federal jurisdiction

(First Nation Reservations in both AB and SK). Having completed many projects on First Nations land, Jon Lamnek has gained experience in all aspects of Environmental Assessment practices, reporting requirements and conducting site/facility audits. Along with these projects, a great deal of time has been spent as a consulting liaison between Industry representatives, Indian Oil and Gas Canada, and First Nations Council members.

More recently, Jon has been involved with a major SAGD Project in Northern Alberta. Focus has been on maintaining environmental compliance, core hole programs and SAGD / Core hole drilling waste management.

Zoe Smith - B.Sc. Biology

Zoe Smith graduated from the University of Saskatchewan with a four year degree in biology. Zoe's studies included various areas of biology such as ichthyology, ornithology, mammalogy, animal behaviour, plant biology, and ecology. Previous employment with the Battleford's Wildlife Federation provided Zoe with experience in identifying plants, waterfowl, songbirds, bird eggs, as well as other wildlife. To further her plant identifying skills, she has attended a Saskatchewan rare plant seminar at the University of Saskatchewan.

X-Terra Environmental Consulting Ltd. has provided Zoe with experience in writing Environmental Assessments, Project Proposals, Restoration Plans, and Environmental Protection Plans addressing various federal and provincial government agencies. In the field, Zoe has performed assessments and monitoring of leases and pipelines, performed rare plant risk assessments, bird surveys, oil spill sampling, and audits. Further field experience includes working on sensitive lands, such as Northern Provincial Forest, Manitou Sand Hills, WHPA (Wildlife Habitat Protection Act) lands, and PFRA Community Pastures.



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Chrissy Herman - B.Sc. (Honors) Land Use and Environmental Studies/Biology

Chrissy graduated from the Land Use and Environmental Studies (LUEST) Program at the University of Saskatchewan. Through the LUEST program Chrissy also completed a four-year degree in biology. Studies at the university concentrated on ornithology, plant systematics, chemistry, toxicology, environmental assessment, environmental law, soil science, and economics. A work term with the Canadian Wildlife Service provided Chrissy with experience working on Federal Lands, identifying native plants, wildlife and wildlife habitat, and a familiarity with the current wildlife legislation. Staying current on provincial regulations is a priority, including attending the Government of Saskatchewan's annual Oil and Gas Review meetings.

Chrissy's experience with X-Terra includes field assessments, preparing Environmental Assessments and proposals, and monitoring for lease construction, drilling, pipelining, and seismic programs on Provincial and Federal Crown and First Nation lands. Additional experiences include performing lease renewals on Saskatchewan Agriculture and Food (SAF) lands and constructing Saskatchewan Environment (SE) required mitigation plans for private lands. Chrissy is practiced in performing assessments in sensitive environments including: WHPA (Wildlife Habitat Protection Act) lands, PFRA Community Pastures, the Northern Provincial Forest, Meadow Lake Provincial Park, and the Manitou Sand Hills.

Steve Lamnek - Environmental Consultant

Steve Lamnek received a graduate diploma in Environmental Science majoring in Environmental Monitoring and Compliance from Lakeland College in Vermilion AB. Steve has been working for X-Terra environmental Consulting Ltd. as an Environmental Consultant for four years specializing in assessing and monitoring seismic programs, oil and gas well site assessments as well as pipeline assessment and construction. In the past years Steve has worked on numerous First Nation Lands including Thunderchild, Saddle Lake, Red Pheasant, Loon Lake, Frog Lake, and Onion Lake.

Paul Kip – Environmental Consultant

Paul Kip graduated from Lakeland College with a Bachelors degree in Applied Integrated Environmental Management. During his education he also obtained a Graduate Diploma in Environmental Science with a major in Environmental Monitoring and Enforcement. With a total of 10 years working in areas with an environmental discipline, Paul's experience has included work in the oil and gas, pulp and paper and forestry industries. Paul's experience in the oil and gas industry includes the completion of Phase I and II environmental impact assessments, pre disturbance assessments of oil and gas projects and also the environmental monitoring of construction, drilling and reclamation activities with regards to oil and gas projects. Paul also has been involved with the monitoring of seismic operations and pipeline constructions on First Nations land.

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Paul's previous employment as Environmental Coordinator for Millar Western Pulp has given him great experience in the implementation of environmental management systems, environmental auditing, and interpretation and compliance of regulatory laws and approvals, and liaison with various provincial and federal regulatory bodies including Saskatchewan Environment, Saskatchewan Watershed Authority, Fisheries and Oceans and Environment Canada. During this time Paul has also had experience in the sampling, analysis and monitoring of air, soil, potable water, storm water, industrial waste water and ground water.

Justin Maines; B.Sc. (Honors) Land Use and Environmental Studies

Justin Maines graduated from the Land Use and Environmental Studies (LUEST) Program at the University of Saskatchewan. Studies at the university concentrated on soil science, geography, environmental assessment, and economics. Through X-Terra Environmental Consulting Ltd., Justin has handled projects on private land, provincial crown land (AB and SK) including monitoring of seismic programs, oil and gas wellsite assessments and construction, as well as pipeline assessment and construction. Justin's experience on First Nation Lands includes both field assessments and report preparation.

Environmental Assessments for drilling and pipelining programs on the Onion Lake, Red Pheasant, Thunderchild, Loon River, and Little Pine First Nations.

- Together, X-Terra Environmental Consulting Ltd. personnel have several combined years of environmental knowledge that is put to practise each and every day. They have excellent working relationships with various governmental agencies including Saskatchewan Environment (SE), Saskatchewan Agriculture Food and Rural Revitalization (SAFRR), Alberta Environment (AE), Department of Fisheries and Oceans (DFO, Sustainable Resource Development (SRD), Indian Oil and Gas Canada (IOGC), and Saskatchewan Industry and Resource (SIR).

Insurance and Certifications

X-Terra carries a \$5,000,000 General Liability Insurance Policy along with Saskatchewan and Alberta Worker's Compensation.

All employees are certified in CPR, First Aid, WHMIS, ATV Safety, H₂S Alive, and Safe Quad Operation.



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Health and Safety Policy

Safety is an integral part of our company's work. It is a key component on how we will operate and is there to protect ourselves, clients, other workers, property, the environment, and the public.

In support of our policy we will commit to the following:

- Provide mechanically sound equipment that at a minimum meets all the manufacturer's specifications, maintenance, OH&S regulations and our clients' requirements.
- Allow our clients' to inspect our equipment on a regular basis, document and correct any deficiencies.
- Any employees that we may hire, will be trained on the OH&S requirements of our clients, Provincial OH&S regulations, and safe operating practices of our equipment.
- Report to our client all unsafe acts, conditions or near misses that we are aware of.
- Conduct/participate in any investigation that may arise from an accident or incident, that we have knowledge about.
- Attend on a regular basis, if allowed, the safety meetings of our clients.
- Attend, if requested, all training and orientation sessions of our clients.
- Become familiar and comply with any safe work procedures that are required for us to do our job safely.
- Become familiar with the Emergency Response Plan of our clients where it would impact us.
- Be knowledgeable in the hazards associated with our work and be fully trained on how to deal with those hazards (e.g. H₂S, WHMIS, TDGR, FIRST AID, CPR,etc.).

**In support of our Policy/Program we review it annually to ensure it is meeting the intent of the Policy/Program and make any changes that improve and enhance it.

We look forward to doing business with you in the near future!!