



TRITON

Environmental Consultants

triton-env.com

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OVERVIEW

Triton Environmental Consultants knows western Canada. It's where we live and work, and it's always been that way. With multiple offices strategically located across Western Canada, we're always ready to identify opportunities and support our clients on the ground.

Our partners and clients trust us to provide a wide range of professional services, and our approach is to always offer thoughtful, highly practical environmental solutions and consistent, timely results.

Our team members are knowledgeable, collaborative, trustworthy and professional. Yet our greatest strength has always been our local field experience and the valuable connections we've built in the communities we serve. We don't just know how to find our clients' development projects on a map; we call these places home.

Triton Environmental Consultants has always been mindful of its responsibility to facilitate sustainable use of the environment in the best interests of our clients and their stakeholders. From power projects and mines to interprovincial pipeline projects, clients have relied on us to successfully steward their projects from inception through approval to completion since 1989.

OUR PROMISE

Practical solutions

Experienced professionals

Collaborative partnerships Local relevance

Responsible development

Social license



OUR SERVICES

Triton can deliver a comprehensive suite of environmental consulting services, including vegetation, wildlife, fisheries, aquatics and marine. Below is a sampling of the services we provide:

FEASIBILITY AND CONSTRAINTS ANALYSIS

Engaging qualified environmental professionals at project inception can greatly reduce uncertainties surrounding project acceptance. Environmental professionals provide valuable insight into environmental scope, project costs, timelines and client return on investment. During initial project phases, we help our clients:

- Identify potential environmental constraints, regulatory pathways, permitting requirements and mitigation strategies
- Assess regional issues and develop environmental terms of reference
- Conduct gap analyses, due diligence and risk assessments
- Design and assess project siting options

ENVIRONMENTAL ASSESSMENT AND PERMITTING

All development projects navigate a specific regulatory pathway and permitting process, with associated requirements being dependent upon the environmental setting, project scope and purpose. At Triton, we help our clients streamline their projects by identifying site-specific requirements from project inception. Our expertise in achieving regulatory success is demonstrated by our strong track record in Federal and Provincial permitting, such as for AER, CEAA, BCEAA, NEB, OGC, DFO, TC and BC MOECCS including those processes required for trans-provincial applications. We provide:

- Resource inventory and environmental baseline studies
- Regulatory application fulfillment, including support throughout the approval process
- Environmental Impact and Effects Assessments, including Cumulative Effects
- Environmental representation for working group meetings, stakeholder consultations, open houses and public meetings
- Project-specific permit applications, including lands acquisition, water consumption, waste discharge, species at risk and investigative use in BC and Alberta

AQUATIC ASSESSMENTS

Triton is a leader in aquatic assessments, having completed thousands of aquatic projects across various industry sectors – including work at large industrial facilities, on inter- and trans-provincial pipelines, and around numerous energy projects. Aquatic interactions factor into the decision-making process in virtually every project in western Canada, and it's important to understand the implications of these interactions when presenting information to owners, regulatory agencies, stakeholders and First Nations groups. Triton brings this expertise and has extensive experience working in a variety of terrains as well, including mountainous, coastal and prairie environments. Triton's team of aquatic specialists also possesses impressive academic credentials, having published a number of articles in scientific, peer-reviewed publications. Our team of professionals have conducted over 4,500 projects, and our range of services includes:

- Aquatic Inventory and Baseline Studies including fish and fish habitat, invertebrates, water and sediment quality
- Pipeline, transmission line and vehicle watercourse crossing assessments, including justification of least-risk timing windows
- Fish distribution studies and population indexing
- Habitat suitability assessments and instream flow requirements
- Fish passage assessments and restoration
- Specialized aquatic studies involving radio telemetry, microchemistry, hydro-acoustics, fish enhancement and toxicology
- Project-specific permit applications including water consumption, waste discharge, instream works and riparian areas
- Due diligence and risk management assessments
- Mitigation and compensation planning



MARINE ASSESSMENTS

Almost every project built on or near a marine environment requires a deep understanding of the interaction between the project and the marine habitat. Triton has qualified marine biologists, and engaging them at project inception often reduces uncertainties surrounding project acceptance. Triton is experienced in planning, designing and executing marine environmental assessments, having completed marine projects across many industry sectors. We also have extensive experience working in a variety of marine ecosystems, including intertidal, sub-tidal, estuarine and open ocean environments.

We provide:

- Marine ecosystem inventories encompassing foreshore and sub-tidal environments focused on species of management concern
- Marine habitat classification and ranking using dive, bathymetric and sonar studies
- Project and site-specific best management practices, or offsetting options, designed to reduce or eliminate potential conflicts with marine species and habitats
- Hydro-acoustic monitoring of blasting and pile-driving activities
- Analysis of water and sediment quality for effluent discharge, dredging and disposal in compliance with Municipal, Provincial, Federal and other relevant guidelines and regulations
- Design and budgeting of alternative shoreline erosion protection measures
- Marine mammal observation studies focused on potential interactions with shipping traffic and underwater construction activities

HABITAT OFFSETTING AND COMPENSATION PLANNING

Triton has built its reputation in the field of aquatic sciences by finding and implementing innovative, cost-effective solutions for industry. Where project effects are unavoidable, habitat offsetting plans are required to counterbalance those effects. This is one of our areas of strength, as Triton has designed complex fisheries habitat compensation plans for many high-profile projects.

Triton is also experienced in navigating the regulatory processes associated with compensation planning, and we understand that integrating compensation options into a project's design can reduce potential project and permitting delays. Triton is experienced in preparing compensation plans under CEAA and BCEAA, and we have worked on multi-year compensation programs.

We provide:

- Fish and fish habitat mitigation and compensation plans
- Fish passage restoration
- Design and construction of instream habitat features, including large woody debris and boulder complexing, and design of off-channel habitat (spawning, rearing and overwintering)
- Riparian habitat restoration and compensation



WATER QUALITY

Triton's team of specialized water quality and hydrologic professionals have demonstrated success negotiating the rigorous Federal and Provincial regulatory landscapes. This success is achieved through our extensive knowledge of applicable guidelines, policies and industry-specific permitting requirements.

Over the past 30 years, Triton has provided water quality and hydrologic services for a broad spectrum of clients in the mining, energy and land development industries. Regardless of the scale of the client and project, Triton's aquatic team always supplies timely consulting services and pragmatic products that exceed our clients' expectations.

We provide:

- Analysis and interpretation of water quantity and quality for baseline characterization of proposed project sites
- Project-specific permit applications including water use, consumption and waste discharge
- Design and implementation of long-term environmental effects monitoring programs with a focus on water quality
- Development of site-specific water quality objectives for marine and freshwater receiving environments
- Ecological risk assessment for aquatic environments
- Minimum instream flow requirements
- Hydrological modeling and flow monitoring

ENVIRONMENTAL MANAGEMENT

Environmental management and protection planning is often required to comply with environmental legislation, from initial management and protection plans to design and implementation of long-term monitoring. Site-specific management plans tailored to the scope and setting of a particular project accelerate project schedules while reducing delays and unforeseen project costs. Triton has developed numerous management plans, ranging from small residential developments to inter-provincial pipeline projects. We work with owners, regulatory authorities and contractors to provide:

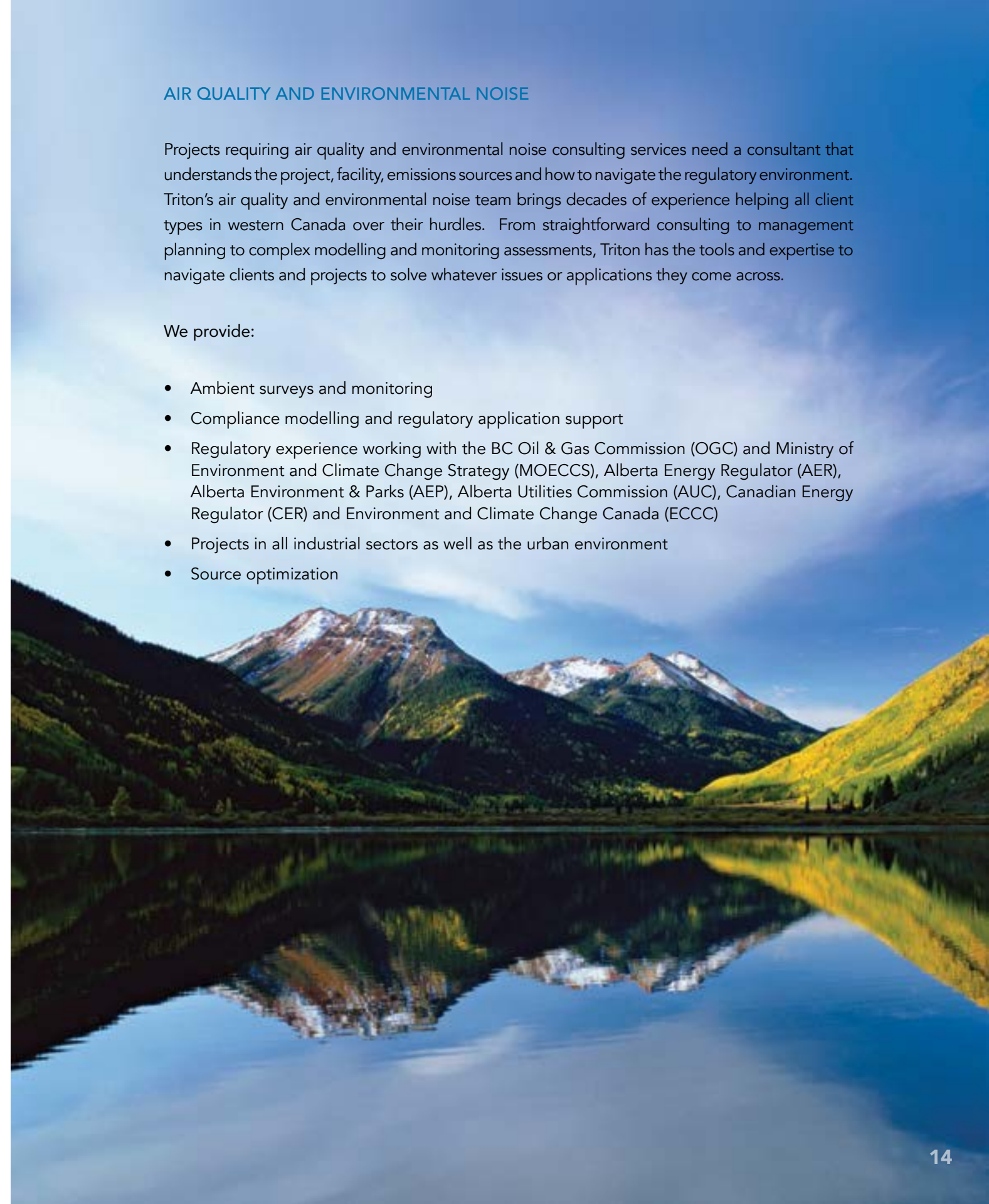
- Environmental Management Plans that identify all risks, associated controls and mitigation strategies
- Environmental protection plans based on regulatory commitments and conditions of licenses, permits and authorizations
- Erosion and sediment control plans
- Species-specific or habitat-specific protection plans
- Detailed spill response and control plans including incident reporting protocols
- Training programs designed to help owners, contractors and local hires understand environmental regulations, project requirements and long-term goals
- Realistic and achievable habitat mitigation, restoration and compensation planning

AIR QUALITY AND ENVIRONMENTAL NOISE

Projects requiring air quality and environmental noise consulting services need a consultant that understands the project, facility, emissions sources and how to navigate the regulatory environment. Triton's air quality and environmental noise team brings decades of experience helping all client types in western Canada over their hurdles. From straightforward consulting to management planning to complex modelling and monitoring assessments, Triton has the tools and expertise to navigate clients and projects to solve whatever issues or applications they come across.

We provide:

- Ambient surveys and monitoring
- Compliance modelling and regulatory application support
- Regulatory experience working with the BC Oil & Gas Commission (OGC) and Ministry of Environment and Climate Change Strategy (MOECCS), Alberta Energy Regulator (AER), Alberta Environment & Parks (AEP), Alberta Utilities Commission (AUC), Canadian Energy Regulator (CER) and Environment and Climate Change Canada (ECCC)
- Projects in all industrial sectors as well as the urban environment
- Source optimization



COMPLIANCE MONITORING

A key element of environmental management and protection planning is compliance monitoring and construction supervision. Compliance monitoring is an essential, long-term commitment that documents compliance with permitting goals and ensures that environmental measures, controls and specifications are properly implemented. Instances of non-compliance can be costly and delay project schedules. Triton will interact with project owners, supervisors and construction personnel to inform and educate them regarding environmental requirements and sensitivities prior to and during construction. If an unexpected event occurs, the compliance monitor is the first line of defence, particularly where mitigating actions may prevent or reduce penalty charges.

We provide:

- Environmental management system and environmental certification auditing
- Experienced environmental leads for construction projects ranging from large industrial projects to small watercourse crossings in mountainous, coastal and prairie environments
- Liaison services with regulatory agencies to accommodate changes in project scope during construction, to ensure construction continues without delay
- Agency Approved Independent Environmental and Compliance Auditors
- Experienced team members willing to work with owners and contractors to provide on-site training and orientations to supervisors and construction staff
- Environmental incident investigations, effects monitoring and regulatory reporting

TERRESTRIAL ASSESSMENTS

Triton's team of terrestrial biologists are industry leaders with the expertise and knowledge required to support projects throughout the permitting process. Triton's biologists work closely with Federal, Provincial, First Nations and stakeholders when conducting terrestrial assessments, and our expertise in wildlife, vegetation, and soils assessments includes renewable energy and other major resource development projects throughout western Canada. Triton's experience includes developing and implementing study programs in accordance with regulatory requirements, including those set out by the Canadian Wildlife Service, and BC's and Alberta's ministries of environment. We provide:

- Ecosystem Inventory (Terrestrial Ecosystem Mapping – TEM)
- Rare Plant and Community Inventories and Assessment
- Species of Concern (COSEWIC and SARA)
- Avian Inventories involving count surveys, brood surveys, call playback, breeding birds and pre-clearing nest searches
- Amphibian surveys and salvages
- Ungulate and furbearers inventories including browse and pellet counts, transect and winter snow-tracking surveys
- Environmental site assessments and reclamation
- Soil surveys and mapping

COMMITTED TO SAFETY

Workplace safety is the cornerstone of our business because Triton cares about its team members, their families and their quality of life.

To support and protect our team, partners, clients and members of the communities we operate in, Triton maintains a number of independently verified corporate safety certifications. For example, Triton has received a Certificate of Recognition from Energy Safety Canada (formerly Enform), the safety association for the upstream oil and gas industry. We have also completed our SAFE Certification through the BC Forest Safety Council.

Triton is also registered at numerous online databases that allow us to self-report safety conformance details specifically related to our various clients' standards.



OUR PARTNERSHIPS

Triton has a record of working with First Nations and consistently provides employment and training of First Nation environmental specialists with over 1,000,000 employment hours provided to our First Nations colleagues. Triton is committed to integrating First Nations into our projects as we recognize the value of the local knowledge our First Nation team members provide due to their incredible knowledge and understanding of their traditional territories.

Our 30 year history of working with First Nation groups has resulted in many formal business relationships, including:

- Haisla_Triton LP, a Limited Partnership with the Haisla Nation
- Estsék' Environmental Services LLP, a Limited Liability Partnership with Simpcw Resources Ltd.
- Khtada Environmental Services LP, a Limited Partnership with Metlakatla Development Corporation
- Northlink Consultants LP, a Limited Partnership formed with Gingolx Enterprises Ltd., the economic development arm of the Nisga'a Village of Gingolx

Triton has close working relationships with numerous other First Nations throughout BC.

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