



Trinity Consultants Canada is a leading environmental consultancy that brings together trusted advisors, scientists and engineers to help clients solve their most complex challenges. With deep local roots and the strength of a global organization, Trinity Consultants Canada delivers innovative, scientifically sound and future-ready solutions that help industry, government and Indigenous Communities navigate complex regulatory landscapes, secure project permits and approvals to achieve better environmental outcomes. They are internationally respected leaders with decades of proven expertise in Water & Ecology, Environmental Health and Safety (EHS), Built Environment and Life Sciences.

Our Water & Ecology teams are recognized leaders in environmental assessment, permitting and monitoring, offering key services to sectors including renewables, mining, ports and terminals, marine shipping, linear development, liquefied natural gas (LNG), ecological restoration, municipal wastewater, energy, and forestry.

Our Expertise

Trinity Consultants Water & Ecology provides a specialized services to support clients in developing sustainable water management practices. We have extensive experience in the assessment, mitigation, and monitoring of flow-related effects to the aquatic environment. We have built our reputation in the industry by developing tailored solutions that blend two decades of experience with in-house data and modeling capacity, allowing us to provide cost-effective and successful support for projects that will affect stream hydrology. We have supported numerous clients by characterizing the existing environmental conditions and conducting objective, science-based assessments, engaging with Indigenous peoples, regulators, other project stakeholders, and collaboratively developing water management practices that minimize effects to the aquatic environment.

Our Services

- Environmental Flow Needs (EFN) assessments for short-term water use (Section 10 of WSA) and long-term conditional water licences
- Screening-level assessments to inform project design and identify environmental and permitting risks associated with water use
- Regulatory support, including strategic advice, permitting, and third-party reviews (e.g., BC Water Sustainability Act, Fisheries Act)
- Developing strategies to mitigate the effects of water use on the environment, e.g., water management plans



- Assessment of wetlands, streams, and groundwater-surface water interactions to support provincial and federal permitting requirements for water use and footprint activities
- Ecohydraulic modeling (e.g., PHABSIM, SEFA) to develop predictive relationships between streamflow and ecological indicators
- Guideline—compliant ecological assessments for water management activities, e.g., consumptive water use for process plants or dust management, flow diversion, dewatering activities, water treatment
- Assessment of change in water level and flow downstream of project activities for compliance with the Fisheries Act
- Assessment of predicted climate change impacts to environmental flows for regulatory requirements
- Engagement with First Nations and communities on water use plans and potential effects of project activities on the aquatic environment
- Long-term monitoring of the effects of water use on the environment through field studies and adaptive management

CONTACT OUR TEAM!

For more information about how we can help your organization, please contact us.

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