

 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

The Trinity Consultants Canada team provides groundwater services, including physical and chemical hydrogeological assessments, subsurface investigations, flow rate estimates, delineation of contaminant plumes, and hydrogeochemical source term characterization. Our experts have experience working with large-multidisciplinary teams in support of various types of environmental and engineering studies, such as Environmental Assessments, feasibility studies, closure planning, and regulatory approvals and permitting. We design and implement baseline characterization programs for development projects and also design and complete groundwater monitoring programs for other phases of mining from construction through to closure. Field and laboratory data are interpreted, incorporated into analytical solutions, and applied to numerical models to provide predictions of potential effects to groundwater and surface water environments in support of regulatory approvals and compliance, such as water taking and effluent discharge permits.

Our Services

- Subsurface and hydrogeological investigations
- Groundwater monitoring program design and implementation
- Groundwater monitoring program review and rationalization
- Drill and test pit program supervision
- Well installation, development, and testing



- Data logging instrumentation procurement and installation
- Permeability and pump testing
- Groundwater flow predictions
- Conceptual model development
- Groundwater and pore water hydrogeochemistry
- Tailings and mine rock seepage characterization
- Groundwater flow and quality temporal trend analyses
- Baseline studies and effects assessments
- Contaminant transport and plume delineation
- Groundwater-surface water interactions
- Stable and radioactive isotope tracers
- Regulatory approvals and permitting support

CONTACT OUR TEAM!

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

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