

## Environmental Effects Monitoring (EEM) Capabilities



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.

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### Our Expertise

In Canada's mining sector, environmental compliance is especially critical. Since 2002, federal metal mining effluent regulations (MMER; replaced by MDMER in 2018, which expanded scope to include diamond mines) have provided a regulatory framework to protect aquatic ecosystems from the impacts of mining operations. Central to this framework are Environmental Effects Monitoring (EEM) requirements, which mandate that mining companies assess the health of downstream aquatic environments impacted by their activities. These requirements are in place to ensure that scientifically rigorous studies are conducted to evaluate indicators such as benthic invertebrate and fish health, offering essential insights into the potential effects of mining discharges on local ecosystems.

Trinity Consultants Canada brings over 20 years of experience conducting EEM programs for mining operations within Canada and

EEM-style programs abroad. Our scientists have led over 200 EEM studies across 35 mining sites, combining in-depth knowledge with extensive experience to design, implement, and report on EEM studies that exceed the latest MDMER standards.

Our team's expertise is further strengthened by cross-industry experience, including EEM program management in the Pulp and Paper sector. Our scientists have also directly contributed to the development of EEM regulations, actively participating in technical working groups that shape MDMER guidelines. This regulatory insight and involvement give our clients a streamlined path to compliance, grounded in practical, cost-effective, and scientifically robust solutions.

At Trinity, we prioritize accuracy, timeliness, and regulatory compliance in every aspect of EEM submissions, from study design, through implementation and data interpretation, to interpretive reporting. Through clear and transparent communication, we build trust and streamline compliance. With Trinity Consultants Canada as your EEM partner, you can count on programs that are defensible, efficient, and aligned with both your business and environmental goals.





## Our Services:

- EEM study design and implementation
- Investigation of cause
- Site-specific EEM solutions
- Regulatory reporting support
- Data interpretation and analysis
- Stakeholder communication and engagement

### CONTACT OUR TEAM!

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

**Trinity Consultants Canada | Water & Ecology**  
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