

REGULATORY COMPLIANCE & EHS PERFORMANCE

Consulting Services in Canada

Founded in 1974, Trinity Consultants is an international environmental consulting firm that completes more than 5,000 projects annually across North America and abroad. With specialized staff in nearly 50 locations, we bring extensive and carefully selected resources to engagements in order to deliver on our promise of super-pleasing our clients.

Canada Experience

For more than 40 years, Trinity has been recognized as a leading provider of consulting services related to air quality permitting and compliance, regulatory applicability analysis, climate change, EHS management, and air dispersion modelling. Our Seattle office (established in 1996) has supported Canadian clients for more than a decade; our Toronto office, formerly Church and Trought, has been serving clients in Ontario for nearly 25 years; and our most recent acquisition, Minnow Environmental, has been a leader in aquatic sciences support for Canadian mining companies for two decades. Our track record is based on a commitment to client satisfaction achieved through exceptional work performed with utmost professionalism.

Trinity assists clients in Canada in a wide range of industries, including:

- > Cement, Lime and Aggregates
- > Chemical Manufacturing
- > Electric Power
- > Financial
- > Food Processing
- > Forest Products
- > Government
- > General Manufacturing/Surface Coating
- > Legal
- > Mining and Minerals
- > Pharmaceutical
- > Plastics Manufacturing
- > Primary/Secondary Aluminum Smelting
- > Pulp & Paper Manufacturing
- > Real Estate
- > Warehousing
- > Waste Management



Through excellent project performance, Trinity has developed effective working relationships with our Canadian clients, local regulators, and other qualified environmental professionals. By selecting Trinity, your company will benefit from our local regulatory knowledge, exceptional technical capabilities, and focus on client service.

Air Quality Permitting and Regulatory Requirements

Trinity assists organizations with obtaining the necessary air permits to build and operate their facilities and with demonstrating ongoing compliance with the associated terms and conditions. Our foundational expertise in industrial air quality issues is unmatched, providing our clients with the peace of mind that projects are being handled efficiently, accurately, and with their corporate objectives in mind. Trinity brings extensive practical experience in all aspects of air quality analysis and regulation, including the following:

- > Air quality permitting
- > Emission source identification and quantification
- > Regulatory applicability analysis and permitting support
- > Control technology evaluations

- > Dispersion modelling studies
 - AERMOD dispersion modelling for short-range analyses
 - CALPUFF modelling for long-range and complex terrain
 - Accidental release modelling
- > Ambient air quality and meteorological monitoring
- > Statistical analyses of aerometric and meteorological data
- > Emissions asset management
- > Visible emissions testing and training

Noise Analyses

In order to protect the community or workers from harmful or annoying noise levels, a noise analysis may be required prior to initiating a new project. In addition, owner/operators may wish to perform a noise analysis as a component of a community relations program or to defend against potential litigation. Trinity performs noise analyses through application and interpretation of noise models such as CadnaA. We can assist clients with determining noise exposure levels, performing acoustical analyses, developing noise abatement strategies, and providing technical support during litigation and for community relations programs.

Odour Modelling and Management

Source testing can be used as a method of determining the impact of a facility's operations through quantifying the intensity of an odour at the source. Trinity provides testing for odours according to USEPA and Canadian source testing protocols including the following:

- > Stack testing
- > Water surface testing
- > Soil and solids testing
- > Bio-filter testing
- > Ambient air sampling

Establishing background odour is an important technique in understanding the impacts of odour from off-property sources. For clients interested in differentiating their facilities' odour impacts from the facilities around them, this is particularly important. Trinity's field specialists perform ambient air monitoring using on-site odour sampling equipment. This can be

particularly useful for facilities with large scale odour sources such as landfills, waste and composting facilities, and waste water treatment sites. Trinity's odour monitoring technicians, who are certified for in-field and laboratory odour assessment, are also capable of training individuals in conducting on-site odour monitoring, including certified individual nose-calibration. Due to our expertise in air dispersion modelling, we are also able to quantify odour impacts at the property line and beyond, assisting clients in demonstrating compliance, or remediating odour issues.

Environmental Site Assessments

In order to assist clients in minimizing environmental risk associated with purchasing and selling properties, Trinity helps identify, characterize, and mitigate potential risk. We perform Environmental Site Assessments (ESA) to characterize potential liabilities (e.g., spills, leaks, or groundwater contamination) at industrial, commercial, and agricultural sites, and conduct site remediation to remove or treat contaminated areas.

Trinity can provide the following ESA services:

- > Phase I/Phase II (CSA)
- > Phase One/Phase Two (MOECC)
- > Risk Assessments
- > Site Remediation (Insitu/Exsitu)
- > Site Closure Reports

EH&S Compliance Audits

Because of potential liability issues, it is especially important to perform audits to evaluate compliance with applicable regulations. Trinity can help you evaluate environmental and safety systems to find issues before they become problems. Trinity develops protocols for compliance audits and assesses site performance related to Provincial and Federal regulations, including local requirements. Trinity also develops and presents industry specific EH&S education programs.

Learn how Trinity can assist with your environmental challenges. In western Canada, contact Trinity's Seattle, WA office at (253) 867-5300, and in Ontario and elsewhere, contact our Toronto office at (416) 391-2527.

