

# REGULATORY COMPLIANCE

## EHS Services in Canada



Trinity Consultants is a leading global environmental consulting firm that brings 50 years of experience providing services and solutions in the EHS Regulatory Compliance, Built Environment, Life Sciences, and Water & Ecology markets. Trinity has the technical expertise, industry depth, and specialized capabilities to help clients achieve their goals across the natural and built environments.

Trinity's Toronto, ON office provides top-notch environmental consulting services to clients across Canada. Established in 1990, Trinity's Toronto office has supported Canadian clients for more than three decades. Our track record is based on a commitment to client satisfaction achieved through exceptional work performed with the utmost professionalism. Through excellent project performance, Trinity has developed effective working relationships with our Canadian clients, local regulators, and other qualified environmental professionals.

Some of the key industries we serve include Automotives, Cement, Lime and Aggregates, Chemical Manufacturing, Crematoriums, Data Centers, Food & Beverage, Forest Products, General Manufacturing, Mining and Minerals, Primary/ Secondary Aluminum Smelting, Recycling, Petroleum Terminals, Pulp & Paper Manufacturing, Warehousing, and Waste Management.

## Air Quality Permitting, Compliance Assistance, Reporting, and Dispersion Modeling

Trinity assists organizations with obtaining the necessary air permits to build and operate their facilities while 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 managed efficiently, accurately, and with their corporate objectives in mind. Trinity brings extensive practical experience in all aspects of air quality analyses and regulation, including the following:

- ▶ Air Quality Permitting (including Noise and Odour)
  - Environmental Compliance Approval (ECA)
  - Environmental Activity and Sector Registry (EASR)
  - Emission Summary and Dispersion Modeling (ESDM) Reports
- ▶ Emissions and Release Quantification and Reporting
  - National Pollutant Release Inventory (NPRI)
  - Greenhouse Gas Reporting Program (GHGRP)
  - Ontario GHG Regulation (O. Reg. 390/18)
  - ChemTRAC
- ▶ Regulatory Applicability
- ▶ Air Dispersion Modelling Studies (AERMOD)
- ▶ Ambient Air Quality and Meteorological Monitoring

## Acoustic, Noise, and Vibration Analyses

Trinity's Acoustics, Noise, and Vibration specialists can perform monitoring, predictive modelling, and noise abatement evaluations; provide expert technical support; and can assist with community relations programs. Noise and vibrations assessments are often required for permitting applications, to assess land use compatibility, to support environmental assessments, to evaluate exposure levels of employees and/or to minimize excessive wear and tear and equipment fatigue failure.

Trinity's Acoustic, Noise, and Vibration services include the following key areas:

- ▶ Interior Acoustic
  - Sound Transmissions
  - Reverberation Time
  - Speech Privacy
- ▶ Noise Permitting (including Air Quality and Odour)
  - Environmental Compliance Approval (ECA)
  - Environmental Activity and Sector Registry (EASR)
  - Acoustic Assessment Reports (AAR)
  - Noise Abatement Action Plans (NAAP)
  - Acoustic Audit Studies



- ▶ Land-Use Assessments
  - D-Series
  - Noise and Vibration Feasibility Studies
  - Noise and Vibration Impact Studies
- ▶ Noise and Vibration Monitoring
  - Construction Noise and Vibration Monitoring
  - Baseline Noise Monitoring
  - On-Site Noise Surveys
- ▶ Vibration Permitting
  - Zone of Influence for Construction
  - Vibration Assessment Report (VAR)

## ESG and Sustainability

Our experts assist clients in developing and implementing sustainability strategies to reduce their environmental impact and improve their sustainability performance, including assisting clients with managing their greenhouse gas emissions and developing strategies to address climate change risks and opportunities. Trinity's sustainability services include the following key areas:

- ▶ Environmental Sustainability Metrics Development
  - Enterprise-Wide Carbon Footprints
  - Key Performance Indicators Related to Energy, Air, Water, Waste
  - Product Life Cycle Assessment (LCA) and Environmental Product Declarations (EPDs)
  - Digital Solutions for Data Management, Analysis, and Visualization
  - Water Usage and Wastewater Management
  - Waste Generation and Minimization
  - Biodiversity
- ▶ Decarbonization Strategy Development
  - Decarbonization Strategy Advisement
  - Carbon Policy and Regulatory Tracking
  - GHG Target Setting
  - Low Carbon Transition Support
  - Carbon Capture and Sequestration Project Support
- ▶ Sustainability Program Support and ESG Disclosure
  - Environmental Sustainability Program Development and Implementation Support
  - Support with Various Disclosure Platforms such as GRI, CDP, TCR
  - Voluntary 3rd Party GHG Verification Services
  - Materiality Assessment and Peer Benchmarking
  - Climate Risk Assessments
- ▶ Regulatory Support
  - Support with Ontario GHG Regulation (O. Reg. 390/18) and Federal GHGRP Quantification and Reporting

## Odour Assessment and Management

Combining the full range of odour measurements by our field specialists, the industry-leading expertise in air dispersion modelling, control technologies evaluation, Trinity's odour group provides a complete set of odour services to our clients. Trinity provides unmatched support for existing industries and commercial operations with odour testing, modelling, and permitting and compliance support; for proposed industrial and residential developments with due diligence and planning support; and for existing communities with odour surveys and impact assessments.

Trinity's odour group can provide all levels of support through our comprehensive set of services which include:

- ▶ Source Testing in Accordance with Canadian, U.S. EPA, and International Testing Protocols
- ▶ Community Odour Surveys and Monitoring by Our Technicians, Who are Certified for In-Field and Laboratory Analysis
- ▶ Odour Dispersion Modelling
- ▶ Addressing Odour Aspects in Permitting and Approvals Processes such as ECA & EASR, Land Use Planning Including Land Use Compatibility Assessments Under MECP D-1 and D-6 Guidelines to Support Official Plan and Zoning By-Law Amendments
- ▶ Building Envelop Studies
- ▶ Odour Complaint Investigation and Response
- ▶ Control Technologies Evaluation
- ▶ Odour Abatement and Management Plans

## Environmental Audits

Third party audits are valuable in identifying compliance status of existing facilities and in recognizing gaps or potential liabilities. We have staff who that can help you evaluate environmental 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. Our services include:

- ▶ Environmental Audits
- ▶ Compliance Gap Assessments
- ▶ Development of Compliance Trackers
- ▶ Development of Internal Regulatory Compliance Protocols and Standards

## Industrial Hygiene Services

Employee health and safety is integral to today's businesses. Trinity has the ability to create industrial hygiene programs which identify, test and assess potential workplace hazards and potentials for employee exposure. Trinity's industrial hygiene team can assist with all aspects of your facility's industrial hygiene program including:

- ▶ Assessing Current Industrial Hygiene Programs
- ▶ Developing Programs Based on Facility's Safety Data Sheets, Processes and Potential for Exposure
- ▶ Conducting Industrial Hygiene Assessments for a Variety of Occupational Air Compounds as well as Occupational Noise Exposure Assessments
- ▶ Recommending Controls

- ▶ Conduct Air Change Measurements, Fumehood Verifications and a Variety of other Hygiene Services
- ▶ Assisting with Ministry of Labour (MOL) Inspections

Trinity's industrial hygiene team can help your facility maintain compliance with all industrial hygiene regulations and requirements.

## On-Site Services

Trinity can assist your facility with on-site assessments to compliment permits and other regulatory requirements. Trinity's capabilities span a variety of industries and service types. Some of our core skills include:

- ▶ Compliance Stack/Source Testing Using
- ▶ Recognized USEPA and Canadian Methods
- ▶ Vapour Recovery Unit (VRU) Testing
- ▶ Control Equipment Efficiency Testing
- ▶ Odour Monitoring/Odour Source Testing
- ▶ Noise Surveys
- ▶ Wastewater Sampling
- ▶ City of Toronto P2 Plans
- ▶ Materials Testing
- ▶ Siltation Sampling
- ▶ E Coli, Coliform, Legionella, and Other Water Sampling
- ▶ Ventilation Studies
- ▶ Continuous Emissions Monitoring Systems (CEMS) Calibration

Trinity can manage your facility's sampling programs from consultation with regulatory bodies, pre-test plans, and full-service sampling programs to final compliance reports.

## Environmental Emergency (E2) Plans and Chemicals Management Plan (CMP)

The Environmental Emergency (E2) Regulations (last amended in 2019) were developed by the Canadian federal government to reduce the frequency and consequences of uncontrolled, unplanned, or accidental releases of specific hazardous substances into the environment. Trinity's services include:

- ▶ Applicability Assessments
- ▶ Risk Modeling using RMP\*COMP, ALOHA, or Other Models
- ▶ Development of E2 Plans

Trinity can also assist with the evaluation, preparation, and submission of federal CMP reports to ECCC, including mandatory reporting, declaration of stakeholder interest, and declaration of non-engagement.

## Leak Detection and Repair (LDAR)

Trinity performs gap assessments of facilities' LDAR programs, reviewing their LDAR programs for compliance with applicable requirements. We also facilitate the development and implementation of LDAR



programs, are well versed in leak detection using Infrared monitors and complete Third Party LDAR Audits for clients. Trinity offers the following services for LDAR development programs:

- ▶ Development and Implementation of LDAR Programs
  - Defining LDAR Program and Training Requirements
  - Acquiring Equipment and Providing the Associated Training
  - Implementing Monitoring Equipment Capable of Logging Data for Upload to Tracking Software
  - Assisting in Software Selection for Long-Term Program Compliance Documentation
  - Integration With Multiple LDAR Databases Such as LeakDAS and FEMS
- ▶ Third-Party Audit of Existing LDAR Programs at Industrial Facilities

For more information about how Trinity can help your organization, please contact our Trinity Toronto office at 416.391.2527.

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