



Air Quality Monitoring Services

Committed to exceptional quality and unparalleled customer service, SRC's Air Quality team offers air quality monitoring services that provide long-term **environmental and economic benefits**, including long-term **emissions reduction potential**. Through our services, clients gain a clearer understanding of the type and concentration of airborne aerosols and gases exhausted into the environment. SRC's services enable its clients to develop and implement **process improvements** as well as demonstrate **regulatory compliance**.

• Industrial Source Testing

- Characterize various gases, such as SO₂, NO_x, HCl and Cl₂
- Real-time stack concentrations of greenhouse gases (GHG), such as CO₂, N₂O and CH₄
- Characterize various metals, including arsenic, mercury, radionuclides
- Sampling of particulates (PM_{2.5}, PM₁₀, total suspended particulates (TSP))
- Relative Accuracy Test Audit (RATA) testing for various pollutant gases
- Semi-volatile organic species such as PAHs, PCBs, dioxins and furans
- High-performance tests and high-temperature stack sampling (1100 C)
- Fourier Transform Infrared (FTIR) testing and analysis

• Dispersion Modelling

- U.S. Environmental Protection Agency (EPA)/AERMOD Regulatory Model

• Ambient Air

- Ambient air quality monitoring for SO₂, NO_x, O₃, H₂S and PM_{2.5}

• Industrial Hygiene

- Gaseous compounds (CO, CO₂, O₂, H₂S, NO₂, SO₂ and formaldehyde)
- Metals (welding) and other particulate material (coal, wood and diesel)
- Volatile and semi-volatile organic compounds



CONTACT

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Overview

SRC has provided air quality and emissions testing services to industry clients for over 35 years and is a preeminent supplier of these services within Saskatchewan. SRC's Air Quality experts provide support for emission producing industries through stack gas and air quality monitoring and reporting. SRC's Air Quality team works with a variety of industries, such as mining, chemical manufacturing, biofuels production and electricity generation.

We offer a wide range of **sampling and measuring parameters**, as well as **metals testing** (e.g., arsenic, copper, gold, cobalt, bismuth, etc.) and **sulphuric acid mist**.

Using **Fourier Transform Infrared (FTIR) technology**, we measure total greenhouse gas emissions in exhaust stack gases. We can determine the effectiveness of pollution control equipment by performance efficiency testing. Our services include conducting dispersion modelling studies for new or expanding industries. We also provide clients with **indoor air monitoring services** at industrial locations and in commercial buildings, as well as **ambient air monitoring**.

Environmental Testing and Analysis

Proper monitoring of airborne compounds released from industrial sources is of vital importance to the environment. SRC Environmental Analytical Laboratories provides world-class analysis of our field samples. It is a fully equipped state-of-the-art chemistry laboratory certified by the Canadian Association for Laboratory Accreditation (CALA), which follows a rigorous quality control/quality assurance program. SRC Environmental Analytical Laboratories analyzes environmental and radionuclide samples.

Safety

Safety is an overriding priority at SRC. Our personnel receive a variety of safety-related training, such as fall arrest, WHMIS and First Aid.

SRC's Air Quality team is **COR-certified**, the industry standard in safety certification. COR certification is nationally trademarked and endorsed by participating members of the Canadian Federation of Construction Safety Associations (CFCSA).

Testimonial

"The only people that could do what we needed was SRC, because they're the only ones with the equipment that can actually do a live, on-stream, in situ air sample that collected this material that tells us what the properties of the material were."
Adriaan Huiberts, Project Manager, Key Lake Operation, Cameco.



SRC conducts applied research, development, design, testing, piloting, scale-up, demonstration and technology commercialization relevant to our strategic economic sectors and we use the knowledge gained to help clients solve technology problems, make improvements, seize opportunities, maintain competitiveness, increase productivity and develop new markets.

