

Environmental Programs

Air Emissions Monitoring

In order to ensure that air quality is maintained at a level that does not harm the natural environment or public health or safety, some permits issued under Yukon's Air Emissions Regulations include a requirement to monitor the levels of contaminants released to the air. Permittees may be required to conduct continuous monitoring and/or manual stack testing for these contaminants of concern: nitrogen oxides (NO_x), sulphur dioxide (SO₂), particulate matter less than 2.5 microns in diameter (PM_{2.5}), carbon monoxide (CO), hydrogen sulphide (H₂S), sulphuric acid mist (H₂SO₄) or any other contaminant specific to the permitted activity. Manual stack testing must be done in accordance with a testing method acceptable to the Environmental Programs Branch.

Acceptable Source Testing Methods

The following source testing methods are acceptable to the Environmental Programs Branch:

- Any method listed in the U.S. Code of Federal Regulations, Title 40, Chapter 1, Part 60 (Standards of Performance for New & Modified Stationary Sources), [Appendix A](#), that is applicable to the permitted activity and to the contaminants for which monitoring is required;
- Environment Canada references:
 - [Reference Method EPS 1/RM/2 for the Measurement of Releases of Selected Semi-Volatile Organic Compounds from Stationary Sources](#);
 - [Reference Method EPS 1/RM/8 for Source Testing: Measurement of Releases of Particulate from Stationary Sources](#);
 - [Reference Method EPS 1/RM/15 for the Monitoring of Gaseous Emissions from Fossil Fuel-fired Boilers](#);
- Saskatchewan Environment Standard reference methods for source testing: APC-31: Measurement of Emissions of Particulates from Stationary Sources;
- [Alberta Stack Sampling Code](#)
- [Ontario Source Testing Code \(version #2\), Report#ARB-66-80](#)
- [British Columbia Field Sampling Manual – Stationary Emissions Testing Code 1995](#)
- [Quebec Sampling of Atmospheric Emissions from Stationary Sources](#)
- [Manitoba Stack Sampling Protocol](#)
- American Society for Testing & Materials (ASTM) UOP 9 – 85 : [Hydrogen Sulfide in Gases by the Tutwiler Method](#)

Other source testing methods, not listed above, could be acceptable subject to the prior written approval of the Environmental Programs Branch. Please contact the Branch with details of the method proposed to confirm its acceptability in Yukon.

Related Topics

- [Air Emissions Regulations Fact Sheet](#)
- [Air Emissions Regulations](#)
- [Environment Act](#)

For more information, please contact:

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Copies of Yukon Government regulations may be viewed online at <http://www.environmentyukon.gov.yk.ca/monitoringenvironment/> or at any Yukon Public Library, territorial agent, territorial representative or regional services office. You may purchase copies at the Inquiry Centre, Yukon Government Administration Building, 2071-2nd Avenue in Whitehorse, or by mail from the Subscriptions Clerk, Yukon Government Queen's Printer, Box 2703, Whitehorse, Yukon, Y1A 2C6 (phone (867) 667-5783 or toll free 1-800-661-0408 extension 5783).

