



Analytical Chemistry Services Laboratory

Environmental Sustainability & Strategic Policy Division
Knowledge Management Branch

Located in Victoria, BC the North Road Analytical Laboratory is a component of the Knowledge Management Branch, Technical Services Section. The laboratory has provided support services within the Natural Resource Sector for over 40 years. These services are also available to collaborative agencies, on a cost recovery basis.



Major Instrumentation:

- ICP-MS and Dual View ICP-OES spectrometers
- GC/Mass Spectrometer
- GC/Automated headspace
- HPLC/MS chromatographs
- Ion chromatograph
- NCS elemental analyzers
- TOC/TIC elemental analyzer
- Automatic titrator system
- Automated chemistry analyzers
- UV/visible spectrophotometers
- PH/ion and conductivity meters

Major Equipment:

- Microwave digestion systems
- Claisse M4 3 Burner Fluxer
- Automated soxhlet extractors
- Ashing Furnace
- Centrifuges
- Centrifugal evaporator
- Pressure plate apparatus
- Programmable freeze chamber
- Liquid nitrogen cryo-freezers
- Freeze dryer
- Mills and grinders
- Incubators and drying ovens



Typical samples:

- Soil, litter, woody debris
- Vegetation, foliage, wood
- Water and leachates
- Dendrochronology Cores
- Biosolids, biochar and ash
- Fertilizers
- Pollen



Example analyses:

Soil:

- Total C, N and S
- Ammonium / Nitrate
- Extractable ions/elements
- Trace Elements & Heavy Metals
- Water retention curves
- Ergosterol, organic acids

Water:

- Anions and cations
- Dissolved/suspended solids
- pH, alkalinity and conductivity
- TOC/DON/DIN

Plant Tissue:

- Total C, N and S
- Total macro/micronutrients
- Trace Elements & Heavy Metals
- Terpenes, resin acids
- Carbohydrates
- Lignin / Fiber
- Pigments



Quality is tightly controlled by use of standard reference materials, control samples, and international sample exchange programs.

The Laboratory can conduct many other tests not listed, and would be pleased to discuss any analytical request with interested clients.

Contact: Clive Dawson, Lab Supervisor (Clive.Dawson@gov.bc.ca or NRLAB@gov.bc.ca) 250.952.4133

[Ministry of Environment & Climate Change Strategy - Analytical Lab](#)