

# ENVIRONMENTAL SERVICES



**AGAT** Laboratories

Service Beyond Analysis

AGAT Laboratories is a highly specialized, Canadian-based company that provides analytical laboratory services worldwide. We offer services to the Environmental, Energy, Mining, Industrial, Transportation, Agri-Food and Life Science sectors. With world-class facilities and state-of-the-art instrumentation, our qualified personnel adhere to our mission statement, delivering "Service Beyond Analysis".



# ENVIRONMENTAL SERVICES

AGAT Laboratories' Environmental Chemistry Division provides comprehensive services to the environmental industry, environmental consultants and the government.

## Applications

- Contaminated site testing
- Drilling waste services
- Detailed soil and water analysis (including drinking water)
- Compound identification
- Research and development
- Method development

Our environmental laboratories utilize EPA, ASTM, Standard Methods, NIOSH and other industry test procedures and methods in accordance with both federal and provincial legislation.

## Accreditation

AGAT Laboratories is accredited or approved for specific analyses by the following agencies:

- The Canadian Association for Laboratory Accreditation (CALA)
- The Standards Council of Canada (SCC)
- Canadian Council of Ministers of the Environment (CCME)
- British Columbia Ministry of the Environment
- Alberta Environment
- Ontario Ministry of the Environment
- Ontario Ministry of Environment Drinking Water Testing License
- Ministère du Développement Durable, de l'Environnement et des Parcs du Québec (MDDEP)
- Nova Scotia Ministry of the Environment and Labour

AGAT Laboratories is accredited to the following international standards:

- International Standards Organization ISO 9001:2008
- International Standards Organization ISO/IEC 17025:2005

# Environmental Services

## Organic Chemistry

We provide high quality trace organic data to meet provincial and federal guidelines. Through advances in methodology and with a team of experienced scientists we are able to meet the low-level detections of thousands of compounds.

Some of these compounds include:

- Volatile Organic Compounds
- Polyaromatic Hydrocarbons
- Alcohols
- Sterilants (low-level)
- Pesticides and Herbicides
- Glycols
- Polychlorinated Biphenyls
- Amines
- Solvents
- Naphthenic Acids
- Formaldehyde and aldehydes
- Glyphosate
- Sulfolane (low-level)
- Total and extractable Organic Halides
- Chlorophenolic compounds
- Trihalomethanes
- Oil and Grease
- CBM Methane in water

## Inorganic Chemistry

We are accredited for a vast array of inorganic parameters for the analysis of soils, sludges, drinking water, groundwater, coalbed methane testing and landfill analysis. Our Environmental laboratories are equipped with advanced ICP-OES and ICP-MS instrumentation for metal analysis.

Some of our Inorganic capabilities include:

- Trace metals
- Anions (Cl, Br, F, NO<sub>3</sub>, NO<sub>2</sub>, SO<sub>4</sub>)
- Cations (Mg, Ca, Na, K) micro/macro-nutrients
- Mercury
- Physical parameters
- TLCP and Inorganics
- TOC/TIC
- Cyanide

## Microbiology

AGAT Laboratories has fully accredited microbiology laboratories to detect dangerous bacteria under strict quality assurance conditions. We can analyze the following bacterial parameters in water, soil or food using a number of microbial techniques which satisfy the strict drinking water regulations across Canada.

- E. coli
- Enterococci
- Yeast and Mould
- Total and Fecal Coliforms
- Staphylococcus
- Clostridium
- Pseudomonas
- Viral Coliphages
- Sulfate Reducing Bacteria
- Iron Related Bacteria
- Sporulant Aerobic Bacteria
- Microtox



## Ultra-trace Organics

Our laboratories offer Ultra-trace analysis of persistent organic pollutants (POPs) such as Dioxins and Furans, PCBs and PAHs via High-resolution Gas Chromatography or High-resolution Mass Spectrometry. These compounds can be extracted and analyzed in varying matrices including; solids, soil, water, air and biological tissue.

AGAT Laboratories has the capability to provide extraction and analysis for these compounds in varying matrices including:

<b>Solids</b>	• Soil • Sediment	<b>Semi-solids</b>	• Biological • Fish Tissue • Adipose Tissue
<b>Air</b>	• Polyurethane Foams (PUFs)	<b>Aqueous</b>	• Surface/Ground Water • Drinking Water • Effluents

## Air Quality Monitoring

Our Air Quality Monitoring services assist clients in achieving regulatory compliance, evaluating the effectiveness of their air quality management systems, and to give accurate assessment for environmental impact studies.

Some services that we provide include:

- Ambient Air Monitoring
- Source Emission Testing
- Passive Air Monitoring
- Data Acquisition

## WebEarth | [webearth.agatlabs.com](http://webearth.agatlabs.com)



WebEARTH is our interactive web database for environmental clients. This software package provides clients with real-time access to results while integrating features such as data-trending, guideline comparisons, quality control and customizable export functions. This includes custom downloads in client-specified formats, substitution of cross-Canada regulatory standards, various reporting formats, trending and graphing options all in a secure, managed environment.

