



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 3301
Laboratory Name: Biogeochemical Analytical Service Laboratory
Parent Institution: University of Alberta
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: January 12, 2021
Valid To: June 21, 2023

Scope of Accreditation

Solids (Inorganic)

Methyl mercury - Solids (011)
SOP TM-IOG-044; modified from EPA 1630
COLD VAPOUR ATOMIC FLUORESCENCE SPECTROSCOPY (CVAFS)/ICP/MS-PURGE AND
Methyl mercury

Solids (Inorganic)

Total Mercury - Solids [Sediment] (010)
SOP TM-IOG-043; modified from EPA 7473
ATOMIC ABSORPTION SPECTROSCOPY (AAS)
Mercury

Water (Inorganic)

Ammonia - Water (001)
SOP TM-IOG-003; modified from SM 4500-NH3 H
COLORIMETRIC
Ammonia

Water (Inorganic)

Dissolved Metals - Water (012)
SOP TM-IOG-047; modified from SM 3125 B
ICP/MS
Antimony
Arsenic
Barium
Beryllium

† "OSDWA" indicates the appendix is used for the analysis of Ontario drinking water samples, which is subject to the rules and related regulations under the Ontario "Safe Drinking Water Act" (2002).

The list of tests and measurement capabilities for which a laboratory is accredited can change at any time due to circumstances such as scope extensions, voluntary withdrawal of tests by the laboratory and suspension. Scopes are published by the CALA via the Internet at http://www.cala.ca/cala_directories.html

Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Molybdenum
Nickel
Potassium
Selenium
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Vanadium
Zinc

Water (Inorganic)

Methyl Mercury - Water (007)

SOP TM-IOG-033; modified from EPA 1630

COLD VAPOUR ATOMIC FLUORESCENCE SPECTROSCOPY (CVAFS)/ICP/MS-PURGE AND

Dissolved Methyl Mercury

Methyl mercury

Water (Inorganic)

Nitrite and Nitrate and Nitrate plus Nitrite - Water (002)

SOP TM-IOG-004, SOP TM-IOG-045, SOP TM-IOG-046; modified from EPA 353.2

COLORIMETRIC

Nitrate (calculation)

Nitrate plus Nitrite

Nitrite

Water (Inorganic)

Phosphate - Water (003)

SOP TM-IOG-009; modified from SM 4500-P G

COLORIMETRIC

Phosphate

Water (Inorganic)

Phosphorus - Water (004)

SOP TM-IOG-007; modified from SM 4500-P B and SM 4500-P G

COLORIMETRIC

Total Dissolved Phosphorus

Total Phosphorus

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Water (Inorganic)

Total and Dissolved Mercury - Water (006)

SOP TM-IOG-036; modified from EPA 1631E

COLD VAPOUR ATOMIC FLUORESCENCE SPECTROSCOPY (CVAFS)

Mercury

Water (Inorganic)

Total Nitrogen, Total Dissolved Nitrogen, Total Kjeldahl Nitrogen (TKN), Dissolved Kjeldahl Nitrogen - Water (009)

SOP TM-IOG-005; modified from SM 4500-NO3- I and SM 4500-NORG A and SM 4500-P J

COLORIMETRIC

Dissolved Kjeldahl Nitrogen

Total Dissolved Nitrogen

Total Kjeldahl Nitrogen

Total Nitrogen

Water (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Water (013)

SOP TS-ORG-005, SOP TS-ORG-006; modified from EPA 3510C and EPA 8270D

GC/MS/MS - EXTRACTION

Acenaphthene

Acenaphthylene

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(b,j)fluoranthene

Benzo(g,h,i)perylene

Benzo(k)fluoranthene

Chrysene

Dibenzo(a,h)anthracene

Fluoranthene

Fluorene

Indeno(1,2,3 - cd)pyrene

Naphthalene

Phenanthrene

Pyrene

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