Membership Number: 3301
Laboratory Name: Biogeochemical Analytical Service Laboratory
Parent Institution: University of Alberta
Address: 2-255 CCIS Bldg, University of Alberta Edmonton AB T6G 2E9
Contact: Dr. Mingsheng Ma
Phone: (780) 492-9014
Fax: (780) 248-5861
Email: mingsheng.ma@ualberta.ca

Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: October 17, 2018
Valid To: April 16, 2021

Scope of Accreditation

Solids
Total Mercury - Solids (010)
SOP TM-IOG-043; modified from EPA 7473
AAS
Mercury

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

Methyl Mercury - Water (007)
SOP TM-IOG-033; modified from EPA 1630
DISTILLATION, AQUEOUS ETHYLATION, PURGE AND TRAP, CVAF/ICP/MS
Dissolved Methyl Mercury
Methylmercury

Nitrate plus Nitrite - Water (002)
SOP TM-IOG-004; modified from EPA 353.2
FIA COLORIMETRIC
Nitrate plus Nitrite

Phosphate - Water (003)
SOP TM-IOG-009; modified from SM 4500-P G
FIA COLORIMETRIC
Phosphate

† “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
**Water (Inorganic)**
Phosphorus - Water (004)
SOP TM-IOG-007; modified from SM 4500-P B and SM 4500-P G
   - FIA COLORIMETRIC
   - Total Dissolved Phosphorus
   - Total Phosphorus

**Water (Inorganic)**
Total and Dissolved Mercury - Water (006)
SOP TM-IOG-036; modified from EPA 1631E
   - COLD VAPOUR ATOMIC FLUORESCENCE SPECTROPHOTOMETRY
   - 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
   - FIA COLORIMETRIC
   - Dissolved Kjeldahl Nitrogen
   - Total Dissolved Nitrogen
   - Total Kjeldahl Nitrogen
   - Total Nitrogen

**Water (Organic)**
Polycyclic Aromatic Hydrocarbons (PAH) - Water (005)
SOP TM-ORG-005, SOP TS-ORG-006; modified from EPA 3510C and EPA 8270D
   - GC/MS
   - Acenaphthene
   - Acenaphthylene
   - Anthracene
   - Benzo (a) anthracene
   - Benzo (a) pyrene
   - Benzo (b) 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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