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: September 12, 2019  
Valid To: April 16, 2021

Scope of Accreditation

Solids  
Total Mercury - Solids [Sediment] (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

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

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

Water (Inorganic)  
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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