



The American Association for Laboratory Accreditation

World Class Accreditation

# *Accredited Proficiency Testing Provider*

A2LA has accredited

## **CANADIAN ASSOCIATION FOR LABORATORY ACCREDITATION (CALA)**

*Ottawa, CANADA*

for technical competence as a

### **Proficiency Testing Provider**

This accreditation covers the specific proficiency testing samples listed on the agreed upon Scope of Accreditation. This provider meets the ILAC G-13:2007 Guidelines for the Requirements for the Competence of Providers of Proficiency Testing (comprising ISO Guide 43-1:1997, as well as relevant elements of ISO/IEC 17025:2005 applicable to characterization, homogeneity and stability testing of proficiency testing materials), and the management system requirements of ISO/IEC 17025:2005, which includes the principles of ISO 9000:2005.



Presented this 20<sup>th</sup> day of April 2009.

  
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President & CEO

For the Accreditation Council  
Certificate Number 2298.01  
Valid to May 31, 2013

*For the proficiency testing schemes to which this accreditation applies, please refer to the provider's Scope of Accreditation.*



SCOPE OF ACCREDITATION TO ILAC G-13: 2007

CANADIAN ASSOCIATION FOR LABORATORY ACCREDITATION  
(CALA)

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PROFICIENCY TESTING PROVIDER

Valid To: May 31, 2013

Certificate Number: 2298.01

In recognition of the successful completion of the A2LA evaluation process, this Proficiency Testing Provider (PTP) has been found to meet the ILAC G-13: 2007 for the Requirements for the Competence of Providers of Proficiency Testing Schemes (Based upon the ISO Guide 43-1:1997, relevant elements of ISO/IEC 17025:2005, and relevant ISO 9000-2005 requirements). Accreditation is granted to this provider to provide proficiency-testing samples in the following analyte/matrix combinations:

<u>Program Name / Parameters</u>	<u>Frequency</u>	<u>Matrix</u>
C01A Major Ions Alkalinity (pH 4.5) Chloride Conductivity (25°C) Dissolved Calcium Dissolved Magnesium Fluoride Hardness (as CaCO <sub>3</sub> ) Nitrate Nitrate plus Nitrite Potassium Reactive Silica Sodium Sulfate	6 Months	Water
C01B NH <sub>3</sub> /o-Phosphate/DOC/Bromide/Nitrite Ammonia Bromide DOC Nitrite Phosphate (SRP)	6 months	Water

Program Name / Parameters

Frequency

Matrix

C02A Full Range Metals

6 months

Water

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Manganese  
Molybdenum  
Nickel  
Selenium  
Silver  
Strontium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

C02B High Range Metals

6 months

Water

Aluminum  
Barium  
Boron  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Manganese  
Molybdenum  
Nickel  
Strontium  
Thallium  
Titanium  
Vanadium  
Zinc



<u>Program Name / Parameters</u>	<u>Frequency</u>	<u>Matrix</u>
C02C Total Metals	6 months	Water
Aluminum		
Barium		
Boron		
Chromium		
Cobalt		
Copper		
Iron		
Lead		
Manganese		
Molybdenum		
Nickel		
Strontium		
Thallium		
Titanium		
Vanadium		
Zinc		
C03 TKN and TP	6 months	Water
Total Kjeldahl Nitrogen		
Total Phosphorus		
C04A Solids	6 months	Water
Total Dissolved Solids		
Total Suspended Solids		
Volatile Suspended Solids		
C04B BOD	6 months	Water
BOD (5 day)		
CBOD(5 day)		
C04C Turbidity	6 months	Water
Turbidity		
C04D COD	6 months	Water
COD		

<u>Program Name / Parameters</u>	<u>Frequency</u>	<u>Matrix</u>
C05 Microbiology Escherichia coli (E. coli) Fecal Coliforms Heterotrophic Plate Count (HPC) Total Coliforms	6 months	Water
C06A Organochlorine Pesticides (OCP) Aldrin Alpha-BHC a-Chlordane g-Chlordane Dieldrin Endosulfan I Endosulfan II Endrin Heptachlor Heptachlor Epoxide Lindane (gamma-BHC) Mirex o,p' - DDT p,p' - DDT p,p Methoxychlor	6 months	Water
C06B Total PCB	6 months	Water
C07 Polycyclic Aromatic Hydrocarbons (PAH) 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 Naphthalene	6 months	Water



Hydrocarbons (PAH) (continued)	6 months	Water
Indeno (1,2,3-cd) pyrene		
Phenanthrene		
Pyrene		
<u>Program Name / Parameters</u>	<u>Frequency</u>	<u>Matrix</u>
C08 Total PCB in Oil	6 months	Oil
Total PCB		
C09 Metals on Air Filters	6 months	Air filters
Cadmium		
Copper		
Lead		
Zinc		
C10 Major Ions on Air Filters	6 months	Air filters
Chloride		
Fluoride		
Nitrate		
Sulfate		
C11 Trout LC50	6 months	Water
Trout LC50 (96 h)		
C12 Daphnia LC50	6 months	Water
Daphnia LC50 (48h)		
C13 Microtox IC50	6 months	Water
Microtox IC50 (15 min)		
C14 CN(SAD)	6 months	Water
Cyanide (Strong Acid Dissociable)		
C15 pH	6 months	Water
pH		

<u>Program Name / Parameter</u>	<u>Frequency</u>	<u>Matrix</u>
C16 BTEX / Triahalomethanes / Volatile Organic Compounds (THM/VOC)	6 months	Water
1,1-dichloroethane		
1,1-dichloroethylene		
1,1,1-trichloroethane		
1,1,2-trichloroethane		
1,1,2,2-tetrachloroethane		
1,2-dichlorobenzene		
1,2-dichloroethane		
1,2-dichloropropane		
1,3-dichlorobenzene		
1,4-dichlorobenzene		
Acetone (2-propanone)		
Benzene		
Bromodichloromethane		
Bromoform		
Carbon Tetrachloride		
Chlorobenzene		
Chlorodibromomethane		
Chloroform		
cis-1,2-dichloroethylene		
cis-1,3-dichloropropene		
Dichloromethane		
Ethylbenzene		
Ethylene Dibromide		
M/p-xylene		
Methyl Ethyl Ketone		
Methyl t-butyl ether (MTBE)		
Methyl isobutyl ketone (MIBK)		
o-xylene		
Styrene		
Tetrachloroethylene		
Toluene		
Trans-1,2-dichloroethylene		
Trans-1,3-dichloropropene		
Trichloroethylene		
Trichlorofluoromethane		
Vinyl Chloride		

Program Name / Parameter

Frequency

Matrix

C17 Metals in Soil/Sediment

6 months

Soil/Sediment

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Manganese  
Mercury  
Nickel  
Strontium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

C18 Polycyclic Aromatic Hydrocarbons  
(PAH) in Soil/Sediment

6 months

Soil/Sediment

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

<u>Program Name / Parameter</u>	<u>Frequency</u>	<u>Matrix</u>
C19 Mercury Mercury	6 months	Water
C21 Metals in Air (as sampled on filters) Cadmium Chromium Lead Zinc	3 months	Air Filter
C22 OP Pesticides Atrazine Azinphos-methyl Bendiocarb Carbaryl Carbofuran Chlorpyrifos (ethyl) Cyanazine Diazinon Dimethoate Diuron Malathion Metolachlor Metribuzin Parathion (ethyl) Phorate Simazine Terbufos Trifluralin	6 months	Water
C24 Aryloxy Acid Pesticides 2,4-dichlorophenoxyacetic acid 2,4,5-trichlorophenoxyacetic acid Bromoxynil Dicamba Diclofop-methyl (as free acid) Dinoseb Picloram	6 months	Water
C25 Phenolic Compounds 2,4,6-trichlorophenol 2,3,4,6-tetrachlorophenol	6 months	Water

<u>Program Name / Parameter</u>	<u>Frequency</u>	<u>Matrix</u>
C25 Phenolic Compounds 2,4-dichlorophenol Pentachlorophenol	6 months	Water
C27 Glyphosate Glyphosate	6 months	Water
C28 Aromatic Organics in Air (as sampled on charcoal tubes) Benzene Toluene	6 months	Charcoal Tubes
C29 Aldicarb Aldicarb	6 months	Water
C31A PHC in Soil F1: C <sub>6</sub> -C <sub>10</sub> Benzene Ethylbenzene M/p-xylene o-xylene Toluene	6 months	Soil/Sediment
C31B PHC in Soil F2:C <sub>10</sub> -C <sub>16</sub> F3:C <sub>16</sub> -C <sub>34</sub> F4:C <sub>34</sub> -C <sub>50</sub>	6 months	Soil/Sediment
C32 Residual Chlorine Residual chlorine	6 months	Water
C33 Total Phenolics Total Phenolics	6 months	Water
C34 Total Oil and Grease Total Oil and Grease	6 months	Water

<u>Program Name / Parameter</u>	<u>Frequency</u>	<u>Matrix</u>
C35 PCBs	6 months	Soil/Sediment
C36 VOCs	6 months	Soil
1,1-dichloroethane		
1,1-dichloroethylene		
1,1,1-trichloroethane		
1,1,2-trichloroethane		
1,1,2,2-tetrachloroethane		
1,2-dichlorobenzene		
1,2-dichloroethane		
1,2-dichloropropane		
1,3-dichlorobenzene		
1,4-dichlorobenzene		
Acetone (2-propanone)		
Benzene		
Bromodichloromethane		
Bromoform		
Carbon Tetrachloride		
Chlorobenzene		
Chlorodibromomethane		
Chloroform		
cis-1,2-dichloroethylene		
cis-1,3-dichloropropene		
Dichloromethane		
Ethylbenzene		
Ethylene Dibromide		
M/p-xylene		
Methyl Ethyl Ketone		
Methyl t-butyl ether (MTBE)		
Methyl isobutyl ketone (MIBK)		
o-xylene		
Styrene		
Tetrachloroethylene		
Toluene		
Trans-1,2-dichloroethylene		
Trans-1,3-dichloropropene		
Trichloroethylene		
Trichlorofluoromethane		
Vinyl Chloride		