



SCOPE OF ACCREDITATION TO ISO/IEC 17043:2010

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 has been found to meet the ISO/IEC 17043:2010, "Conformity assessment - General Requirements for Proficiency Testing". Accreditation is granted to this organization 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 ₃) Nitrate Nitrate plus Nitrite Potassium Reactive Silica Sodium Sulfate	6 Months	Water
C01B NH ₃ /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 Aluminum Barium Boron Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Strontium Thallium Titanium Vanadium Zinc	6 months	Water
C03 TKN and TP Total Kjeldahl Nitrogen Total Phosphorus	6 months	Water
C04A Solids Total Dissolved Solids Total Suspended Solids Volatile Suspended Solids	6 months	Water
C04B BOD BOD (5 day) CBOD(5 day)	6 months	Water
C04C Turbidity Turbidity	6 months	Water
C04D COD COD	6 months	Water

<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 alpha-Chlordane gamma-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

<u>Program Name / Parameters</u>	<u>Frequency</u>	<u>Matrix</u>
C07 Polycyclic Aromatic Hydrocarbons (PAH) (continued) Indeno (1,2,3-cd) pyrene Phenanthrene Pyrene	6 months	Water
C08 Total PCB in Oil Total PCB	6 months	Oil
C09 Metals on Air Filters Cadmium Copper Lead Zinc	6 months	Air filters
C11 Trout LC50 Trout LC50 (96 h)	6 months	Water
C12 Daphnia LC50 Daphnia LC50 (48h)	6 months	Water
C13 Microtox IC50 Microtox IC50 (15 min)	6 months	Water
C14 CN(SAD) Cyanide (Strong Acid Dissociable)	6 months	Water
C15 pH pH	6 months	Water

<u>Program Name / Parameters</u>	<u>Frequency</u>	<u>Matrix</u>
C16 BTEX / Trihalomethanes / 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		

<u>Program Name / Parameters</u>	<u>Frequency</u>	<u>Matrix</u>
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 / Parameters</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 / Parameters</u>	<u>Frequency</u>	<u>Matrix</u>
C25 Phenolic Compounds 2,4-dichlorophenol Pentachlorophenol	6 months	Water
C27 Glyphosate Glyphosate	6 months	Water
C29 Aldicarb Aldicarb	6 months	Water
C31A PHC in Soil F1: C ₆ -C ₁₀ Benzene Ethylbenzene M/p-xylene o-xylene Toluene	6 months	Soil/Sediment
C31B PHC in Soil F2:C ₁₀ -C ₁₆ F3:C ₁₆ -C ₃₄ F4:C ₃₄ -C ₅₀	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 / Parameters</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		



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 is accredited in accordance with the recognized International Standard ISO/IEC 17043: 2010 *Conformity assessment-General requirements for proficiency testing*. This provider meets the management system requirements of ISO/IEC 17043:2010, which includes the principles of ISO 9001:2008.



Presented this 22nd day of June 2011.

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.