



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

---

**Membership Number:** 3588  
**Laboratory Name:** AGAT Laboratories (Dartmouth)  
**Parent Institution:** AGAT Laboratories Ltd.  
**Address:** 11 Morris Drive Unit 122 Dartmouth NS B3B 1M2  
**Contact:** Ms. Pam Reyno  
**Phone:** (902) 468-8718  
**Fax:** (902) 468-8924  
**Email:** reyno@agatlabs.com

---

**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** October 6, 2010  
**Valid To:** October 6, 2013

---

### Scope of Accreditation

#### Air (Organic)

Petroleum Hydrocarbons (PHC) - Air (082)

VOL-120-5027; modified from NIOSH 1500 AND ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1  
GC/FID

Benzene  
>C10-C21  
>C6-C10  
Ethylbenzene  
m/p-xylene  
o-xylene  
Toluene

#### Air (Organic)

Total Petroleum Hydrocarbons - Air (087)

VOL-120-5027; modified from NIOSH 1500 AND ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 2  
GC/FID

Aliphatic >C10-C12  
Aliphatic >C12-C16  
Aliphatic >C16-C21  
Aliphatic C6-C8  
Aliphatic >C8-C10  
Aromatic >C10-C12  
Aromatic >C12-C16

† "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](http://www.cala.ca/cala_directories.html)

Aromatic >C8-C10  
Benzene  
Ethylbenzene  
m/p-xylene  
o-xylene  
Toluene

**Oil (Organic)**

Total PCBs - Oil (001)  
ORG-120-5107; modified from ALBERTA ENVIRONMENT METHOD M106.0 AND ASTM D4059-00  
GC/ECD - EXTRACTION  
Total PCB

**Paint**

Lead - Paint (075)  
MET-121-6103, MET 121-6105; modified from SW-846 3050B/6020A  
ICP/MS  
Lead

**Paint (Inorganic)**

Mercury - Paint (108)  
MET-121-6101/6107; modified from DETERMINATION OF TOTAL MERCURY IN PAINT AND APPLIED COATING  
PRODUCT SAFETY BUREAU REF. MANUAL BOOK 5, HEALTH CANADA  
COLD VAPOUR AA - DIGESTION  
Mercury

**Paint (Organic)**

Total PCBs - Paint (105)  
ORG-120-5107; modified from EPA METHOD 8082  
GC/ECD - EXTRACTION  
Total PCBs

**Solids (Inorganic)**

Grain Size - Soil (064)  
INOR-121-6031; ASTM D422-63  
HYDROMETER  
Clay  
Gravel  
Sand  
Silt

† "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](http://www.cala.ca/cala_directories.html)

**Solids (Inorganic)**

Grain Size - Soil (095)  
INOR-121-6034; ASTM D422-63  
SIEVE AND PIPETTE

- 0 PHI (<1)
- 1 PHI (<1/2)
- 1 PHI (<2)
- 2 PHI (<1/4)
- 2 PHI (<4.75)
- 3 PHI (<1/8)
- 3 PHI (<9.5)
- 4PHI (<1/16)
- 4PHI (<12.5)
- 5 PHI (<1/32)
- 6 PHI (<1/64)
- 7 PHI (<1/128)
- 8 PHI (<1/256)
- 9 PHI (<1/512)
- Clay
- Gravel
- Sand
- Silt

**Solids (Inorganic)**

Hexavalent Chromium - Soil (101)  
INOR-121-6029; modified from SSSA BOOK 5, Ch 25, p683  
AUTO COLOR  
Hexavalent Chromium

**Solids (Inorganic)**

Leachable Mercury - Soil, Waste (085)  
MET-121-6109, MET-121-6107, INOR-121-6036; modified from USEPA SW-846 METHOD 1312, SM 3112B and E 245.1  
COLD VAPOUR AA - SPLP  
Mercury

**Solids (Inorganic)**

Leachable Mercury - Soil, Waste (086)  
MET-121-6110, MET-121-6107; modified from CGSB, SM 3112B and EPA 245.1  
COLD VAPOUR AA - CGSB  
Mercury

**Solids (Inorganic)**

Leachable Mercury - Soil, Waste (084)  
MET-121-6108, MET-121-6107; modified from USEPA SW-846 METHOD 1311, SM 3112B, and EPA 245.1  
COLD VAPOUR AA - TCLP  
Mercury

† "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](http://www.cala.ca/cala_directories.html)

**Solids (Inorganic)**

Leachable Metals - Soil, Solid Waste (077)

MET-121-6108, MET-121-6105; modified from USEPA SW-846 METHOD 1311, SM 3125, SM 3030 F, B  
ICP/MS - TCLP

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

**Solids (Inorganic)**

Leachable Metals - Soil, Solid Waste (078)

MET-121-6109, MET-121-6105, INOR-121-6036; modified from USEPA SW-846 METHOD 1312, SM 3125, SM 30  
B

ICP/MS - SPLP  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium

† "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](http://www.cala.ca/cala_directories.html)

Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Rubidium  
Selenium  
Silver  
Strontium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Solids (Inorganic)**

Leachable Metals - Soil, Waste (079)

MET-121-6110, MET-121-6105; modified from CGSB 164-GP-1MP, SM 3125, SM 3030 F, B  
ICP/MS - Leachable CGSB

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Rubidium  
Selenium  
Silver  
Strontium

† "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](http://www.cala.ca/cala_directories.html)

Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Solids (Inorganic)**

Mercury - Soil (004)

MET-121-6107, MET-121-6101; modified from EPA 245.5 & SM 3112 B  
COLD VAPOUR AA - DIGESTION

Mercury

**Solids (Inorganic)**

Metals - Soil (005)

MET-121-6105, MET-121-6103; modified from EPA SW 846 6020 A/3050 B & SM 3125  
ICP/MS - DIGESTION

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Rubidium  
Selenium  
Silicon  
Silver  
Sodium  
Strontium  
Sulfur  
Tellurium  
Thallium  
Tin

† "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](http://www.cala.ca/cala_directories.html)

Titanium  
Uranium  
Vanadium  
Zinc  
Zirconium

**Solids (Inorganic)**

pH - Soil/Sediment (076)  
INOR-121-6006; modified from CANADIAN SOCIETY OF SOIL SCIENCE - P155  
METER  
Soil pH

**Solids (Inorganic)**

Phenols - Soil (091)  
INOR-121-6010; modified from SW-846 9065  
AUTO COLOR  
Total Phenolics

**Solids (Inorganic)**

Total Oil and Grease - Soil, Sediment (073)  
VOL-120-5024; IN-HOUSE  
GRAVIMETRIC  
Total Oil and Grease

**Solids (Organic)**

BTEX - Soil (069)  
VOL-120-5015; IN-HOUSE  
GC/MS - PURGE AND TRAP  
Benzene  
Ethylbenzene  
m/p-xylene  
o-xylene  
Toluene

**Solids (Organic)**

Extractable Petroleum Hydrocarbons (EPH) - Soil (002)  
VOL-120-5007; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER1/TIER 2  
GC/FID - EXTRACTION  
>C10-C16  
>C16-C21  
Fuel Oil (>C10-C21)  
Lube Oil (>C21-C32)

† "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](http://www.cala.ca/cala_directories.html)

**Solids (Organic)**

Extractable Petroleum Hydrocarbons Fractionation (EPH) - Soil (058)

VOL-120-5007; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2  
GC/FID - EXTRACTION

Aliphatic >C10-C12  
Aliphatic >C12-C16  
Aliphatic >C16-C21  
Aliphatic >C21-C32  
Aromatic >C10-C12  
Aromatic >C12-C16  
Aromatic >C16-C21  
Aromatic >C21-C32

**Solids (Organic)**

Organochlorine Pesticides (OCP) - Soil (100)

ORG-120-5108; modified from EPA SW-846/3510 C/8080/8081 A  
GC/ECD - EXTRACTION

a-BHC  
a-chlordane  
Aldrin  
b-BHC  
d-BHC  
Dieldrin  
Endosulfan I  
Endosulfan II  
Endosulfan Sulphate  
Endrin  
Endrin Aldehyde  
Endrin Keytone  
g-BHC (Lindane)  
g-chlordane  
Heptachlor  
Heptachlor Epoxide  
Hexachlorobenzene  
Methoxychlor  
Mirex  
o,p-DDD  
o,p-DDE  
o,p-DDT  
Oxychlordane  
p,p'-DDD  
p,p'-DDE  
p,p'-DDT  
Trifluralin

† "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](http://www.cala.ca/cala_directories.html)

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Soil (050)  
VOL-120-5024; modified from CCME and IN-HOUSE METHOD  
GC/FID - SHAKE EXTRACTION  
F2: C10-C16  
F3: C16-C34  
F4: C34-C50

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Soil (116)  
VOL-120-5015; CCME  
GC/FID - PURGE AND TRAP  
F1: C6-C10

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Soil (059)  
VOL-120-5024; CCME  
GRAVIMETRIC - SHAKE EXTRACTION  
F4: Gravimetric

**Solids (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Soil (008)  
ORG-120-5104; modified from EPA SW 846 8270 C/3541/3510  
GC/MS - EXTRACTION  
1-methylnaphthalene  
2-methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Acridine  
Anthracene  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (b) fluoranthene  
Benzo(b&j)fluoranthene  
Benzo(e)pyrene  
Benzo (g,h,i) perylene  
Benzo (k) fluoranthene  
Chrysene  
dibenzo(a,h)anthracene  
Fluoranthene  
Fluorene  
Indeno (1,2,3 - cd) pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene  
Quinoline

† "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](http://www.cala.ca/cala_directories.html)

**Solids (Organic)**

Total PCBs - Soil (009)

ORG-120-5106; modified from EPA SW 846 8081 B/8080/3510 C  
GC/ECD - EXTRACTION

Total PCB

**Solids (Organic)**

Volatile BTEX, MTBE - Soil (011)

VOL-120-5013; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2  
GC/MS - PURGE AND TRAP

Benzene

Ethylbenzene

m/p-xylene

Methyl t-butyl ether

o-xylene

Toluene

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Soil (014)

VOL-120-5002; modified from EPA SW 846 5035/8260 B  
GC/MS - PURGE AND TRAP

1,1-Dichloroethane

1,1-dichloroethylene

1,1,1-Trichloroethane

1,1,1,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,2,4-Trichlorobenzene

1,3 - dichloropropane

1,3-Dichlorobenzene

1,4-dichlorobenzene

2-Hexanone

Acetone (2-Propanone)

Benzene

Bromodichloromethane

Bromoform

Bromomethane

Carbon Tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethane

Chloroform

Chloromethane

† "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](http://www.cala.ca/cala_directories.html)

cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
m/p-xylene  
Methyl Ethyl Ketone  
Methyl isobutyl Ketone  
Methyl t-butyl ether  
o-xylene  
Styrene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl Chloride

**Solids (Organic)**

Volatile Petroleum Hydrocarbons (VPH) - Soil (119)  
VOL-120-5013; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2  
GC/FID - PURGE AND TRAP  
F1: C6-C10

**Solids (Organic)**

Volatile Petroleum Hydrocarbons Fractionation (VPH) - Soil (063)  
VOL-120-5013; modified from ATLANTIC RBCA GUIDELINES TIER 1/TIER 2  
GC/FID - PURGE AND TRAP  
Aliphatic C6-C8  
Aliphatic >C8-C10  
Aromatic >C8-C10

**Tissue (Inorganic)**

Mercury - Tissue (099)  
MET-121-6101/6107; modified from USEPA 245.6, DETERMINATION OF TOTAL MERCURY IN PAINTS, PRODU  
SAFETY BUREAU REFERENCE MANUAL BOOK 5 - HEALTH CAN  
COLD VAPOUR AA  
Mercury

**Tissue (Inorganic)**

Metals - Tissue (098)  
MET-121-6103/6105; modified from USEPA 200.8/3050  
ICP/MS - DIGESTION  
Aluminum  
Antimony  
Arsenic

† "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](http://www.cala.ca/cala_directories.html)

Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Rubidium  
Selenium  
Silicon  
Silver  
Sodium  
Strontium  
Sulfur  
Tellurium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Tissue (Organic)**

Petroleum Hydrocarbons - Tissue (097)

VOL-120-5032; modified from DETERMINATION OF PETROLEUM HYDROCARBONS IN SELECTED MARINE ORGANISMS UNEP 1995

GC/MS

Extractable Petroleum Hydrocarbons

**Waste (Organic)**

BTEX, MTBE - Waste (Leachate) (114)

VOL-120-5010/INOR-121-6036; modified from ATLANTIC RBCA GUIDELINES AND EPA 1312

GC/MS - PURGE AND TRAP - SPLP

Benzene

Ethylbenzene

m/p-xylene

MTBE (methyl t-butyl ether)

† "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](http://www.cala.ca/cala_directories.html)

o-xylene  
Toluene

**Waste (Organic)**

Extractable Petroleum Hydrocarbons (EPH) - Waste (Leachate) (113)  
VOL-120-5007/INOR-121-6036; modified from ATLANTIC RBCA GUIDELINES AND EPA 1312  
GC/FID - SPLP  
>C10-C21  
>C21-C32

**Waste (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Leachate - Waste (102)  
ORG-120-5104/INOR-121-6036; modified from USEPA METHOD 1312/SW 846 8270 D/3541/3510  
GC/MS - SPLP  
1-methylnaphthalene  
2-methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Anthracene  
benzo(a)anthracene  
benzo(a)pyrene  
benzo(b)fluoranthene  
benzo(e)pyrene  
benzo(g,h,i)perylene  
benzo(k)fluoranthene  
Chrysene  
Dibenzo(a,h)anthracene  
Fluoranthene  
Fluorene  
indeo(1,2,3-cd)pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene

**Waste (Organic)**

Total PCBs - Waste (Leachate) (103)  
ORG-120-5106/INOR-121-6036; modified from SW 846 8081/8080/3510 C USEPA METHOD 1312  
GC/ECD - SPLP  
Total PCBs

**Waste (Organic)**

Volatile Petroleum Hydrocarbons (VPH) - Waste (Leachate) (118)  
VOL-120-5010/INOR-121-6036; modified from ATLANTIC RBCA GUIDELINES AND EPA 1312  
GC/FID - PURGE AND TRAP - SPLP  
C6-C10

† "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](http://www.cala.ca/cala_directories.html)

**Water (Inorganic)**

Alkalinity - Water (020)  
INOR-121-6001; modified from SM 2320 B  
TITRATION  
Alkalinity (pH 4.5)

**Water (Inorganic)**

Ammonia - Water (021)  
INOR-121-6003; modified from SM 4500-NH3 G  
AUTO COLOR  
Ammonia

**Water (Inorganic)**

Anions - Water (022)  
INOR-121-6005; modified from SM 4110 B  
ION CHROMATOGRAPHY  
Bromate  
Bromide  
Chlorate  
Chloride  
Chlorite  
Fluoride  
Nitrate  
Nitrite  
Phosphate  
Sulfate

**Water (Inorganic)**

Carbon - Water (056)  
INOR-121-6026; SM 5310 B  
IR - COMBUSTION  
Organic Carbon

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (024)  
INOR-121-6013; modified from EPA 410.4  
COLOR - DIGESTION  
COD

**Water (Inorganic)**

Chlorine - Water (112)  
INOR-121-6037; modified from SM 4500-Cl-F  
DPD - TITRIMETRIC  
Free Chlorine

† "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](http://www.cala.ca/cala_directories.html)

Total Chlorine

**Water (Inorganic)**

Colour - Water (055)

INOR-121-6014; modified from SM 2120 C

AUTO COLOR

Colour

**Water (Inorganic)**

Conductivity - Water (025)

INOR-121-6001; modified from SM 2510 B

CONDUCTIVITY METER

Conductivity (25°C)

**Water (Inorganic)**

Cyanide - Water (065)

INOR-121-6030; modified from EPA 335.4 RV1, SM 4500-CN N

COLORIMETRIC

Cyanide (SAD)

**Water (Inorganic)**

Dissolved and Extractable Metals - Water (029)

MET-121-6104, 6105; modified from SM 3125 & 3030 B, D

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

† "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](http://www.cala.ca/cala_directories.html)

Silicon  
Silver  
Sodium  
Strontium  
Sulfur  
Tellurium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc  
Zirconium

**Water (Inorganic)**

Ferrous Iron - Water (090)  
INOR-121-6035; SM 3500 - Fe B  
SPECTROPHOTOMETRIC  
Ferrous Iron

**Water (Inorganic)**

Fluoride - Water (031)  
INOR-121-6007; modified from SM 4500F-B  
SELECTIVE ION ELECTRODE  
Fluoride

**Water (Inorganic)**

Hexavalent Chromium - Water (074)  
INOR-121-6029; modified from SM 3500 - CrB  
AUTO COLOR  
Hexavalent Chromium

**Water (Inorganic)**

Mercury - Water (032)  
MET-121-6100, 6107; modified from SM 3112 B & EPA 245.1  
COLD VAPOUR AA - DIGESTION  
Mercury

**Water (Inorganic)**

Oil and Grease - Water (066)  
VOL-120-5026; modified from EPA 1664A  
GRAVIMETRIC  
Mineral Oil and Grease  
Total Oil and Grease

† "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](http://www.cala.ca/cala_directories.html)

**Water (Inorganic)**

pH - Water (035)

INOR-121-6001; modified from SM 4500 H+ B

pH METER

pH

**Water (Inorganic)**

Phenols - Water (067)

INOR-121-6010; modified from EPA 420.2, SM 5530-D

COLORIMETRIC

Total Phenolics

**Water (Inorganic)**

Phosphate - Water (034)

INOR-121-6004; modified from EPA 365.1 & SM 4500 P F

AUTO COLOR

Phosphate

**Water (Inorganic)**

Reactive Silica - Water (057)

INOR-121-6028; EPA METHOD 370.1 & SM 4500 SiO<sub>2</sub>E

AUTO COLOR

Reactive Silica

**Water (Inorganic)**

Solids - Water (036)

INOR-121-6024, 6025; modified from SM 2540 C, D

GRAVIMETRIC

Total Dissolved Solids

Total Suspended Solids

Volatile Suspended Solids

**Water (Inorganic)**

Soluble and Total Biochemical Oxygen Demand (BOD) - Water (023)

INOR-121-6023; modified from SM 5210 B

D.O. METER

BOD (5 day)

CBOD (5 day)

**Water (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Water (037)

INOR-121-6020; modified from SM 4500 NORG D

AUTO COLOR

Total Kjeldahl Nitrogen

† "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](http://www.cala.ca/cala_directories.html)

**Water (Inorganic)**

Total Metals - Water (030)

MET-121-6104, 6105; modified from SM 3125, 3030 B, D  
ICP/MS

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Rubidium  
Selenium  
Silicon  
Silver  
Sodium  
Strontium  
Sulfur  
Tellurium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc  
Zirconium

**Water (Inorganic)**

Total Phosphorus - Water (038)

INOR-121-6009; modified from EPA 365.4 and SM 4500 PE  
AUTO COLOR

Total Phosphorus

† "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](http://www.cala.ca/cala_directories.html)

**Water (Inorganic)**

Turbidity - Water (039)  
INOR-121-6022; modified from SM 2130 B  
NEPHELOMETRY  
Turbidity

**Water (Microbiology)**

Coliforms - Water (081)  
MIC-121-7000; modified from SM 9223 B  
COLILERT - PRESENCE/ABSENCE  
Escherichia coli (E. coli)  
Total Coliforms

**Water (Microbiology)**

Coliforms - Water (115)  
MIC-121-7000; modified from SM 9223 B  
COLILERT- QUANTI-TRAY  
Escherichia coli (E. coli)  
Total Coliforms

**Water (Organic)**

BTEX - Water (044)  
VOL-120-5010; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2  
GC/MS - PURGE AND TRAP  
Benzene  
Ethylbenzene  
m/p-xylene  
o-xylene  
Toluene

**Water (Organic)**

BTEX - Water (068)  
VOL-120-5014; IN-HOUSE  
GC/MS - PURGE AND TRAP  
Benzene  
Ethylbenzene  
m/p-xylene  
o-xylene  
Toluene

† "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](http://www.cala.ca/cala_directories.html)

**Water (Organic)**

Extractable Petroleum Hydrocarbons (EPH) - Water (040)  
VOL-120-5007; modified from ATLANTIC RBCA GUIDELINES FOR LABORATOIES TIER 1/TIER 2  
GC/FID - EXTRACTION  
>C10-C16  
>C16-C21  
Fuel Oil (>C10-C21)  
Lube Oil (>C21-C32)

**Water (Organic)**

Extractable Petroleum Hydrocarbons (EPH) - Water (060)  
VOL-120-5026; IN-HOUSE  
GRAVIMETRIC  
F4G

**Water (Organic)**

Extractable Petroleum Hydrocarbons (EPH) Fractionation - Water (072)  
VOL-120-5007; modified from ATLANTIC RBCA GUIDELINES TIER 1/TIER 2  
GC/FID - EXTRACTION  
Aliphatic >C10-C12  
Aliphatic >C12-C16  
Aliphatic >C16-C21  
Aliphatic >C21-C32  
Aromatic >C10-C12  
Aromatic >C12-C16  
Aromatic >C16-C21  
Aromatic >C21-C32

**Water (Organic)**

Haloacetic Acids (HAA) - Water (061)  
ORG-120-5110; modified from EPA 552.3  
GC/ECD  
Bromoacetic Acid  
Bromochloroacetic Acid  
Chloroacetic Acid  
Dibromoacetic Acid  
Dichloroacetic Acid  
Trichloroacetic Acid

**Water (Organic)**

Organochlorine Pesticides (OC) - Water (071)  
ORG-120-5108; modified from EPA SW-846/3510 C/8080/8081 A  
GC/ECD - EXTRACTION  
A -BHC  
a - Chlordane  
Aldrin  
beta-BHC

† "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](http://www.cala.ca/cala_directories.html)

delta-BHC  
Dieldrin  
Endosulfan I  
Endosulfan II  
Endosulfan Sulfate  
Endrin  
Endrin Aldehyde  
Endrin Keytone  
γ - Chlordane  
Heptachlor  
Heptachlor Epoxide  
Lindane (gamma-BHC)  
Mirex  
o,p' - DDT  
o,p-DDD  
op'-DDE  
Oxychlordane  
p,p' - DDT  
p,p' Methoxychlor  
pp'-DDD  
pp'-DDE

**Water (Organic)**

Petroleum Hydrocarbons (PHC) - Water (080)  
VOL-120-5025; IN-HOUSE  
GC/FID - SHAKE EXTRACTION  
F2 (C10-C16)  
F3 (C16-C34)  
F4 (C34-C50)

**Water (Organic)**

Petroleum Hydrocarbons (PHC) - Water (120)  
VOL-120-5014; IN-HOUSE  
GC/FID - PURGE AND TRAP  
F1: C6-C10

**Water (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Water (042)  
ORG-120-5104; modified from EPA SW 846 8270 D/3510 C/3541  
GC/MS - EXTRACTION  
1-methylnapthalene  
2-methylnapthalene  
Acenaphthene  
Acenaphthylene  
Acridine  
Anthracene  
Benzo (a) anthracene

† "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](http://www.cala.ca/cala_directories.html)

Benzo (a) pyrene  
Benzo (b) fluoranthene  
benzo (b&J) fluoranthene  
Benzo(e)pyrene  
Benzo (g,h,i) perylene  
Benzo (k) fluoranthene  
Chrysene  
Dibenzo (a,h) anthracene  
Fluoranthene  
Fluorene  
Indeno (1,2,3 - cd) pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene  
Quinoline

**Water (Organic)**

Total PCBs - Water (043)  
ORG-120-5106; modified from EPA SW 846 3510C/8080/8081  
GC/ECD - EXTRACTION  
Total PCB

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (046)  
VOL-120-5001; modified from EPA 624 & EPA SW846 5230 B/8260  
GC/MS - PURGE AND TRAP

1,1-Dichloroethane  
1,1-dichloroethylene  
1,1,1-Trichloroethane  
1,1,1,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,2-dibromoethane  
1,2-dichlorobenzene  
1,2-dichloroethane  
1,2-Dichloropropane  
1,2,4-Trichlorobenzene  
1,3-Dichlorobenzene  
1,3-dichloropropane  
1,4-dichlorobenzene  
2-chloroethyl vinyl ether  
2-Hexanone  
Acetone (2-Propanone)  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane

† "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](http://www.cala.ca/cala_directories.html)

Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
m/p-xylene  
Methyl Ethyl Ketone  
Methyl isobutyl Ketone  
Methyl t-butyl ether  
o-xylene  
Styrene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl Chloride

**Water (Organic)**

Volatile Petroleum Hydrocarbons (VPH) - Water (117)  
VOL-120-5010; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2  
GC/FID - PURGE AND TRAP  
C6-C10

**Water (Organic)**

Volatile Petroleum Hydrocarbons Fractionation (VPH) - Water (062)  
VOL-120-5010; modified from ATLANTIC RBCA GUIDELINES TIER 1/TIER 2  
GC/MS  
Aliphatic C6-C8  
Aliphatic >C8-C10  
Aromatic >C8-C10

† "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](http://www.cala.ca/cala_directories.html)