



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 3588  
**Laboratory Name:** AGAT Laboratories (Dartmouth)  
**Parent Institution:** AGAT Laboratories Ltd.  
**Address:** 11 Morris Drive Unit 122 Dartmouth NS B3B 1M2  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** March 6, 2018  
**Valid To:** April 3, 2019

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### Scope of Accreditation

#### Air (Inorganic)

Total Suspended Particulates - Air (128)  
INOR-121-6041; EPA 5  
GRAVIMETRIC  
Total Suspended Particulate (TSP)

#### Air (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Air (145)  
ORG-120-5104; modified from NIOSH 5515  
GC/MS  
1-Methylnaphthalene  
2-Methylnaphthalene  
Acenaphthene  
Naphthalene

#### Air (Organic)

Total Petroleum Hydrocarbons (TPH) - Air (087)  
VOL-120-5027; modified from NIOSH 1500 and ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/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  
Aromatic >C8-C10  
Benzene

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>C10-C21  
>C6-C10  
Ethylbenzene  
m,p-Xylene  
o-Xylene  
Toluene

**Air Filter**

Metals - Filter (121)

MET-121-6105, MET-121-6112; modified from SM 3125 and NIOSH 7303

ICP/MS - DIGESTION

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

**Oil (Organic)**

Total Polychlorinated Biphenyls (PCB) - Oil (001)

ORG-120-5107; modified from ALBERTA ENVIRONMENT METHOD M106.0 and ASTM D4059-00

GC/ECD - EXTRACTION

Total PCB

**Paint (Inorganic)**

Mercury - Paint (108)

MET-121-6101, MET-121-6107; modified from DETERMINATION OF TOTAL MERCURY IN PAINT & APPLIED COATINGS, PRODUCT SAFETY BUREAU REF. MANUAL BOOK 5, HEALTH CANADA

COLD VAPOUR AA - DIGESTION

Mercury

**Paint (Inorganic)**

Metals - Paint (075)

MET-121-6103, MET 121-6105; modified from EPA SW-846 3050B and EPA SW-846 6020A and SM 3125

ICP/MS

Arsenic  
Bismuth  
Cadmium  
Copper  
Lead

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Lithium  
Molybdenum  
Phosphorus  
Rubidium  
Selenium  
Silver  
Sodium  
Thallium  
Tin  
Uranium  
Vanadium

**Paint (Organic)**

Total Polychlorinated Biphenyls (PCB) - Paint (105)  
ORG-120-5107; modified from EPA 8082A  
GC/ECD - EXTRACTION  
Total PCB

**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-121-6107, INOR-121-6036; modified from EPA SW-846 1312 and SM 3112 B and EPA 245.1  
COLD VAPOUR AA - SPLP  
Mercury

**Solids (Inorganic)**

Leachable Mercury - Soil, Waste (086)  
MET-121-6107, INOR-121-6040; modified from CGSB and SM 3112 B and EPA 245.1  
COLD VAPOUR AA - CGSB  
Mercury

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**Solids (Inorganic)**

Leachable Metals - Soil, Solid Waste (077)

MET-121-6105, INOR-121-6039; IN-HOUSE LEACHATE and SM 3125 and SM 3030 F and SM 3030 B

ICP/MS - LEACH

- 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-121-6105, INOR-121-6036; modified from EPA SW-846 1312 and SM 3125 and SM 3030 F and SM 3030 B

ICP/MS - SPLP

- Aluminum
- Antimony
- Arsenic
- Barium
- Beryllium
- Bismuth
- Boron
- Cadmium
- Calcium
- Chromium
- Cobalt
- Copper
- Iron
- Lead
- Lithium
- Magnesium

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Manganese  
Molybdenum  
Nickel  
Rubidium  
Selenium  
Silver  
Sodium  
Strontium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Solids (Inorganic)**

Leachable Metals - Soil, Waste (079)

MET-121-6105, INOR-121-6040; modified from CGSB 164-GP-1MP and SM 3125 and SM 3030 F and SM 3030

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  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Solids (Inorganic)**

Mercury - Soil (004)

MET-121-6107, MET-121-6101; modified from EPA 245.5 and SM 3112 B

COLD VAPOUR AA - DIGESTION

Mercury

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**Solids (Inorganic)**

Metals - Soil (005)

MET-121-6105, MET-121-6103; modified from EPA SW-846 6020A and EPA SW-846 3050B and 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  
Silver  
Sodium  
Strontium  
Tellurium  
Thallium  
Tin  
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

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**Solids (Organic)**

BTEX - Solids (175)

VOL-120-5031; ATLANTIC RBCA GUIDELINES FOR LABORATORIES

GC/MS - HEADSPACE

Benzene

Ethylbenzene

m/p-xylene

o-xylene

Toluene

**Solids (Organic)**

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

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

GC/FID - EXTRACTION

Aliphatic &gt;C10-C12

Aliphatic &gt;C12-C16

Aliphatic &gt;C16-C21

Aliphatic &gt;C21-C32

Aromatic &gt;C10-C12

Aromatic &gt;C12-C16

Aromatic &gt;C16-C21

Aromatic &gt;C21-C32

&gt;C10-C16

&gt;C16-C21

Fuel Oil (&gt;C10-C21)

Lube Oil (&gt;C21-C32)

**Solids (Organic)**

Organochlorine (OC) Pesticides - Soil (100)

ORG-120-5108; modified from EPA SW-846 3510C and EPA SW-846 8080 and EPA SW-846 8081A

GC/ECD - EXTRACTION

a-BHC

a-Chlordane

Aldrin

b-BHC

d-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan Sulfate

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

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p,p'-DDE  
p,p'-DDT  
Trifluralin

**Solids (Organic)**

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

**Solids (Organic)**

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

**Solids (Organic)**

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

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids (174)  
VOL-120-5031; ATLANTIC RBCA GUIDELINES FOR LABORATORIES  
GC/FID - HEADSPACE  
F1: C6-C10

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids (176)  
VOL-120-5031; CCME  
GC/FID - HEADSPACE  
F1: C6-C10

**Solids (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Soil (008)  
ORG-120-5104; modified from EPA SW-846 8270C and EPA SW-846 3541 and EPA SW-846 3510  
GC/MS - EXTRACTION  
1-Chloronaphthalene  
1-Methylnaphthalene  
2-Chloronaphthalene  
2-Methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Acridine  
Anthracene  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (b) fluoranthene  
Benzo(b,i)fluoranthene  
Benzo(e)pyrene  
Benzo (g,h,i) perylene  
Benzo (k) fluoranthene  
Chrysene  
Dibenzo(a,h)anthracene  
Fluoranthene

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Fluorene  
Indeno (1,2,3 - cd) pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene  
Quinoline

**Solids (Organic)**

Total Polychlorinated Biphenyls (PCB) - Soil (009)  
ORG-120-5106; modified from EPA 8082 and EPA 3510C  
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 and EPA SW-846 8260B  
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-Dichlorobenzene  
1,3-Dichloropropane  
1,4-dichlorobenzene  
2-Chloroethyl vinyl ether  
2-Hexanone  
Acetone (2-Propanone)  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene

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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) Fractionation - 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  
F1: C6-C10

**Swab (Inorganic)**

Metals - Swab (129)  
MET-121-6105, MET-121-6112; modified from SM 3125 B and NIOSH 9102  
ICP/MS - DIGESTION  
Aluminum  
Barium  
Beryllium  
Cadmium  
Cobalt  
Iron  
Lead  
Manganese  
Molybdenum  
Nickel  
Silver  
Thallium  
Tin  
Titanium  
Uranium

**Swab (Organic)**

Polychlorinated Biphenyls (PCB) - Swab (149)  
ORG-120-5107; EPA 8081 and EPA 8082  
GC/ECD  
Total PCB

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**Tissue (Inorganic)**

Mercury - Tissue (099)

MET-121-6101, MET-121-6107; modified from EPA 245.6 and DETERMINATION OF TOTAL MERCURY IN PAINTS, PRODUCT SAFETY BUREAU REFERENCE MANUAL BOOK 5 - HEALTH CAN  
COLD VAPOUR AA

Mercury

**Tissue (Inorganic)**

Metals - Tissue (098)

MET-121-6103, MET-121-6105; modified from EPA 200.8 and EPA 3050

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

Silver

Sodium

Strontium

Tellurium

Thallium

Tin

Titanium

Uranium

Vanadium

Zinc

**Tissue (Organic)**

Organochlorine (OC) Pesticides - Tissue (183)

ORG-120-5115; modified from EPA SW-846 3510C and EPA SW-846 8080 and EPA SW-846 8081A

GC/ECD - EXTRACTION

a-Chlordane

Aldrin

b-BHC

Dieldrin

Endosulfan I

Endosulfan II

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Endosulfan Sulfate  
Endrin  
Endrin Keytone  
g-BHC  
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

**Tissue (Organic)**

Petroleum Hydrocarbons (PHC) - Tissue (097)

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

GC/MS

Extractable Petroleum Hydrocarbons

**Tissue (Organic)**

Polychlorinated Biphenyls (PCB) - Tissue (182)

ORG-120-5117; modified from EPA SW-846 8082A and AGILENT GC/ECD ANALYSIS & CONFIRMATION OF PCBS IN FISH TISSUE

GC/ECD - EXTRACTION

Total PCB

**Tissue (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Tissue (181)

ORG-120-5116; modified from EPA SW-846 8270C and EPA SW-846 3541 and EPA SW-846 3510 and AGILENT PAH ANALYSIS IN FISH BY GC/MS

GC/MS - EXTRACTION

1-Chloronaphthalene  
1-Methylnaphthalene  
2-chloronaphthalene  
2-Methylnaphthalene  
Acenaphthalene  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(b,i)fluoranthene  
Benzo(e)pyrene  
Benzo(g,h,i)perylene  
Benzo(k)fluoranthene  
Chrysene  
Dibenzo(a,h)anthracene  
Fluoranthene  
Fluorene

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Indeno(1,2,3-cd)pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene

**Waste (Leachate)**

Volatile Organic Compounds (VOC) - Waste (137)

VOL-120-5001, INOR-121-6039; IN-HOUSE LEACHATE and modified from EPA 624 and EPA SW-846 5030B and EPA SW-846 8260

GC/MS

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  
1,4-Dichlorobenzene  
2-Chloroethyl vinyl ether  
2-Hexanone  
Acetone (2-Propanone)  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
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 (MIBK)  
Methyl t-butyl ether (MTBE)  
o-Xylene  
Styrene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane

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Vinyl chloride

**Waste (Organic)**

BTEX and 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

o-Xylene

t-Butyl methyl ether (MTBE)

Toluene

**Waste (Organic)**

Extractable Petroleum Hydrocarbons (EPH) - Waste (CGSB Leachate) (144)

VOL-120-5007, INOR-121-6040; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 and

CGSB 164-GP-IMP

GC/FID

>C10-C16

>C16-C21

>C21-C32

**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-C16

>C10-C21

>C16-C21

>C21-C32

**Waste (Organic)**

Extractable Petroleum Hydrocarbons (EPH) - Waste (Leachate) (143)

VOL-120-5007, INOR-121-6039; IN-HOUSE LEACHATE and ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2

GC/FID

>C10-C16

>C16-C21

>C21-C32

**Waste (Organic)**

Polychlorinated Biphenyls (PCB) - Waste (CGSB Leachate) (148)

ORG-120-5106, INOR-121-6040; CGSB 164-GP-IMP and EPA 8082 and EPA 3510C

GC/ECD

Total PCB

**Waste (Organic)**

Polychlorinated Biphenyls (PCB) - Waste (Leachate) (150)

ORG-120-5106, INOR-121-6039; IN-HOUSE LEACHATE and EPA 8082 and EPA 3510C

GC/ECD

Total PCB

**Waste (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Leachate - Waste (102)

ORG-120-5104, INOR-121-6036; modified from EPA 1312 and EPA SW-846 8270D and EPA SW-846 3541 and EPA SW-846 3510

GC/MS - SPLP

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

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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  
Indeno(1,2,3-cd)pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene

**Waste (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Waste (146)

ORG-120-5104, INOR-121-6040; CGSB 164-GP-IMP/SW-846 8270 D/354/3510

GC/MS

1-Methylnaphthalene  
2-Methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(b,i)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

**Waste (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Waste (147)

ORG-120-5104, INOR-121-6039; IN-HOUSE LEACHATE and EPA SW-846 8270D and EPA SW-846 3541 and EPA SW-846 3510

GC/MS

1-Methylnaphthalene  
2-Methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Acridine  
Anthracene

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Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(b,i)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

**Waste (Organic)**

Total Polychlorinated Biphenyls (PCB) - Waste (Leachate) (103)  
ORG-120-5106, INOR-121-6036; modified from EPA 8082 and EPA 3510C and EPA 1312  
GC/ECD - SPLP  
Total PCB

**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

**Waste (Organic)**

Volatile Petroleum Hydrocarbons (VPH) - Waste (Leachate) (139)  
VOL-120-5010, INOR-121-6039; IN-HOUSE LEACHATE and ATLANTIC RBCA GUIDELINES FOR LABORATORIES  
GC/FID - PURGE AND TRAP  
C6-C10

**Waste (Organic)**

Volatile Petroleum Hydrocarbons (VPH) - Waste (Leachate) (140)  
VOL-120-5010, INOR-121-6039; IN-HOUSE LEACHATE and ATLANTIC RBCA GUIDELINES FOR LABORATORIES  
GC/MS - PURGE AND TRAP  
Benzene  
Ethylbenzene  
m,p-Xylene  
o-Xylene  
Toluene

**Water (Inorganic)**

Acidity - Water (179)  
INOR-121-6044; SM 2310  
TITRATION  
Acidity

**Water (Inorganic)**

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

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**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; SM 4110 B  
ION CHROMATOGRAPHY  
Bromate  
Bromide  
Chlorate  
Chloride  
Chlorite  
Fluoride  
Nitrate  
Nitrite  
Sulfate

**Water (Inorganic)**

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)**

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

**Water (Inorganic)**

Carbon Dioxide - Water (180)  
INOR-121-6044; SM 4500-CO2 C  
TITRATION  
Carbon dioxide (CO2)

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (024)  
INOR-121-6013; SM 5220 D  
COLOR - DIGESTION  
COD

**Water (Inorganic)**

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

**Water (Inorganic)**

Chlorine - Water (188)  
INOR-121-6045; EPA 330.5  
SPECTROPHOTOMETRIC  
Total Chlorine

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**Water (Inorganic)**

Colour - Water (055)  
INOR-121-6014; SM 2120 C  
AUTO COLOR  
True Colour

**Water (Inorganic)**

Conductivity - Water (025)  
INOR-121-6001; modified from SM 2510 B  
CONDUCTIVITY METER  
Conductivity (25°C)

**Water (Inorganic)**

Dissolved and Extractable Metals - Water (029)  
MET-121-6104, MET-121-6105; modified from SM 3125 and SM 3030 B and SM 3030 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  
Silver  
Sodium  
Strontium  
Tellurium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc  
Zirconium

**Water (Inorganic)**

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

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**Water (Inorganic)**

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

**Water (Inorganic)**

Mercury - Water (032)  
MET-121-6100, MET-121-6107; modified from SM 3112 B and 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

**Water (Inorganic)**

pH - Water (035)  
INOR-121-6001; modified from SM 4500-H+ B  
pH METER  
pH

**Water (Inorganic)**

Phosphate - Water (034)  
INOR-121-6004; modified from EPA 365.1 and SM 4500-P F  
AUTO COLOR  
Phosphate

**Water (Inorganic)**

Reactive Silica - Water (057)  
INOR-121-6028; EPA 370.1 and SM 4500-SIO2 E  
AUTO COLOR  
Reactive Silica

**Water (Inorganic)**

Redox Potential (ORP) - Water (122)  
INOR-121-6042; SM 2580 B  
ELECTRODE  
Redox Potential

**Water (Inorganic)**

Solids - Water (036)  
INOR-121-6024, INOR-121-6025, INOR-121-6043; modified from SM 2540 C and SM 2540 D and SM 2540 E  
GRAVIMETRIC  
Fixed Solids  
Total Dissolved Solids  
Total Solids  
Total Suspended Solids  
Volatile Solids  
Volatile Suspended Solids

**Water (Inorganic)**

Sulphide - Water (187)  
INOR-121-6015; SM 4500-S D  
SPECTROPHOTOMETRIC  
Sulphide

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**Water (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Water (037)  
INOR-121-6020; modified from SM 4500-NORG D  
AUTO COLOUR  
Total Kjeldahl Nitrogen

**Water (Inorganic)**

Total Metals - Water (030)  
MET-121-6104, MET-121-6105; modified from SM 3125 and SM 3030 B and SM 3030 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  
Silver  
Sodium  
Strontium  
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-P E  
AUTO COLOR  
Total Phosphorus

**Water (Inorganic)**

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

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**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 (MPN)

Escherichia coli (E. coli)

Total Coliforms

**Water (Microbiology)**

Coliforms - Water (166)

MIC-121-7002; SM 9222 H

MEMBRANE FILTRATION (mCOLIBLUE)

Escherichia coli (E. coli)

Total Coliforms

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (160)

MIC-121-7001; modified from SM 9222 D

COLILERT- QUANTI-TRAY

Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (167)

MIC-121-7002; SM 9222 D

MEMBRANE FILTRATION (mFC)

Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Heterotrophic Plate Count (HPC) - Water (168)

MIC-121-7002; SM 9215 D

MEMBRANE FILTRATION (mHPC)

Heterotrophic Plate Count (HPC)

**Water (Microbiology)**

Pseudomonas - Water (169)

MIC-121-7002; SM 9213 E

MEMBRANE FILTRATION (mPA)

Pseudomonas aeruginosa ((Parameter suspended on 12/5/2017))

**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)**

Dissolved Gases - Water (178)

VOL-120-5028; modified from EPA RSK-175

GC/FID - HEADSPACE

Butane

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Ethane  
Methane  
Propane

**Water (Organic)**

Extractable Petroleum Hydrocarbons (EPH) - Water (060)  
VOL-120-5026; PREP: IN-HOUSE; QUANT: modified from CCME  
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  
>C10-C16  
>C16-C21  
Fuel Oil (>C10-C21)  
Lube Oil (>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 (TCAA)

**Water (Organic)**

Herbicides - Water (155)  
ORG-120-5111; modified from EPA SW-846 8151A and EPA 515.1  
GC/ECD - EXTRACTION  
2,3,4,6-Tetrachlorophenol  
2,4-D  
2,4-Dichlorophenol  
2,4,6-Trichlorophenol  
Bromoxynil  
Dicamba  
Diclofop-methyl (as free acid)  
Dinoseb  
MCPA  
Pentachlorophenol  
Picloram

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**Water (Organic)**

Organochlorine Pesticides (OC) - Water (071)

ORG-120-5108; modified from EPA SW-846 3510C and EPA SW-846 8080 and EPA SW-846 8081A

GC/ECD - EXTRACTION

A -BHC

a - Chlordane

Aldrin

beta-BHC

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan Sulfate

Endrin

Endrin Aldehyde

Endrin Keytone

g - Chlordane

Heptachlor

Heptachlor Epoxide

Hexachlorobenzene

Lindane (gamma-BHC)

Mirex

o,p' - DDT

o,p'-DDD

o,p'-DDE

Oxychlordane

p,p' - DDT

p,p' Methoxychlor

p,p'-DDD

p,p'-DDE

Total PCB

**Water (Organic)**

Organophosphorus (OP) Pesticides - Water (156)

ORG-120-5112; modified from EPA SW-846 3510C and EPA SW-846 8141A and EPA SW-846 8270C

GC/MS - EXTRACTION

Azinphos-methyl

Chlorpyrifos (ethyl)

Diazinon

Dimethoate

Malathion

Parathion (ethyl)

Phorate

Terbufos

**Water (Organic)**

Petroleum Hydrocarbons (PHC) - Water (080)

VOL-120-5025; PREP: IN-HOUSE; QUANT: modified from CCME

GC/FID - SHAKE EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

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**Water (Organic)**

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

**Water (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Water (042)  
ORG-120-5104; modified from EPA SW-846 8270D and EPA SW-846 3510C and EPA SW-846 3541  
GC/MS - EXTRACTION  
1-Chloronaphthalene  
1-Methylnaphthalene  
2-Chloronaphthalene  
2-Methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Acridine  
Anthracene  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (b) fluoranthene  
Benzo(b,i)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 Polychlorinated Biphenyls (PCB) - Water (043)  
ORG-120-5106; modified from EPA SW-846 3510C and EPA SW-846 8082  
GC/ECD - EXTRACTION  
Total PCB

**Water (Organic)**

Triazine Pesticides - Water (157)  
ORG-120-5113; modified from EPA SW-846 3510C and EPA SW-846 8270C and MOE E3121  
GC/MS - EXTRACTION  
Atrazine  
Cyanazine  
De-ethylated atrazine  
Metolachlor  
Metribuzin  
Simazine  
Trifluralin

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**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (046)

VOL-120-5001; modified from EPA 624 and EPA SW-846 5030B and EPA SW-846 8260B

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  
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

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**Water (Organic)**

Volatile Petroleum Hydrocarbons (VPH) Fractionation - Water (062)

VOL-120-5010; modified from ATLANTIC RBCA GUIDELINES TIER 1/TIER 2

GC/FID - PURGE AND TRAP

Aliphatic C6-C8

Aliphatic >C8-C10

Aromatic >C8-C10

F1: 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)