

CALA Directory of Laboratories

Membership Number: 3788

Laboratory Name: AGAT Laboratories - Burnaby **Parent Institution:** AGAT Laboratories Ltd.

Address: 120 - 8600 Glenlyon Parkway Burnaby BC V5J 0B6

Contact: Mr. Mackenzie Pahl

Phone: (778) 452-4000 736-2065; (403) 689-7237

Fax: (778) 452-4074

Email: pahl@agatlabs.com; vhill@agatlabs.com

Standard: Conforms with requirements of ISO/IEC 17025

Clients Served: All Interested Parties Revised On: February 14, 2019 Valid To: August 14, 2021

Scope of Accreditation

Air (Organic)

Volatile Organic Compounds (VOC) - Air [Soil Vapour] (001)

ORG-180-5170; modified from BC MOE LABORATORY MANUAL SECTION H and EPA TO-17

GC/MS - THERMAL DESORPTION

- 1-Chlorobutane
- 1-Chlorohexane
- 1.1-Dichloroethane
- 1,1-Dichloroethene
- 1,1-Dichloropropene
- 1.1.1-Trichloroethane
- 1.1.1.2-Tetrachloroethane
- 1,1,2-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,2-Dibromo-3-chloropropane (DBCP)
- 1,2-Dibromoethane
- 1.2-Dichlorobenzene
- 1.2-Dichloroethane
- 1.2-Dichloropropane
- 1,2,3-Trichlorobenzene
- 1,2,3-Trichloropropane
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,2:3,4-Diepoxybutane
- 1.3-Butadiene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,3,5-Trimethylbenzene

^{† &}quot;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).

- 1,4-Dichlorobenzene
- 2-Butanone (Methyl ethyl ketone, MEK)
- 2-Chlorotoluene
- 2.2-Dichloropropane
- 4-Chlorotoluene
- 4-Methyl-2-pentanone (MIBK)

Acetone

Acetonitrile

Acrylonitrile

Allyl chloride

Benzene

Benzvlchloride

Bromobenzene

Bromochloromethane

Bromodichloromethane

Bromoform

Bromomethane

Carbon disulfide

Carbon tetrachloride

Chlorobenzene

Chloroethane

Chloroform

Chloromethane

cis-1,2-dichloroethene

cis-1,3-Dichloropropene

cis-1.4-Dichloro-2-butene

Dibromochloromethane

Dibromofluoromethane

Dibromomethane

Dichlorodifluoromethane

Dichloromethane

Diethyl ether

Epichlorohydrin

Ethyl acetate

Ethyl methacrylate

Ethylbenzene

Hexachlorobutadiene

Hexachloroethane

Isobutanol

Isopropylbenzene

m,p-Xylene

Methacrylonitrile

Methyl acrylate

Methyl methacrylate

Methyl t-butyl ether (MTBE)

Methylcyclohexane

n-Butylbenzene

n-Decane

n-Hexane

n-Propylbenzene

Naphthalene

Nitrobenzene

o-Xylene

^{† &}quot;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).

p-Isopropyltoluene

Pentachloroethane

Pentafluorobenzene

Propionitrile

Pvridine

sec-Butylbenzene

Styrene

tert-Butylbenzene

Tetrachloroethene

Toluene

trans-1,2-Dichloroethylene

trans-1,3-Dichloropropene

trans-1,4-Dichloro-2-butene

Trichloroethene

Trichlorofluoromethane

Vinyl chloride

Volatile Hyrocarbons (VH): C6-C13

Paint (Inorganic)

Lead - Paint (072)

LAB-181-4020, MET-181-6101; modified from EPA 6010 and NIOSH 7105

ICP/OÉS - DIGESTION

Lead

Solids (Inorganic)

Acid Base Accounting (ABA) - Solids [Ore, Rock, Sediment, Sludge, Soil, Tailings] (078)

ARD-181-18003; EPA 600/2-78-054 (1978)

pH METER

Paste pH

Solids (Inorganic)

Acid Base Accounting (ABA) - Solids [Ore, Rock, Sediment, Sludge, Soil, Tailings] (079)

ARD-181-18009, INOR-181-6022; modified from MEND REPORT 1.20.1 (2009) and SM 4500-SO4 E SPECTROPHOTOMETRIC - DIGESTION

Sulphate-Sulphur

Solids (Inorganic)

Boron (Hot Water Soluble) - Solids [Soil] (048)

LAB-181-4011, MET-181-6101; BC MOE LABORATORY MANUAL SECTION C and EPA 6010C

ICP - HOT WATER EXTRACTION

Boron

Solids (Inorganic)

Carbon-Nitrogen-Sulphur Speciation - Solids [Ore, Sediment, Sludge, Soil, Tailings] (080)

INOR-181-6027; modified from ASTM E1019-11 and ASTM E1915-11

COMBUSTION - TC

Total Carbon

Total Nitrogen

Total Sulphur

Solids (Inorganic)

Chloride - Solids [Saturated Paste] (098)

LAB-181-4022, INOR-181-6023; BC MOE LABORATORY MANUAL SECTION B

COLORIMETRIC

Chloride

^{† &}quot;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).

Solids (Inorganic)

Conductivity - Solids [Saturated Paste, Saturated Paste Extract] (095)

LAB-181-4022; BC MOE LABORATORY MANUAL SECTION B

CONDUCTIVITY METER

Conductivity

Solids (Inorganic)

Cyanide - Solids [Soil] (058)

LAB-181-4013, INOR-181-6010; modified from EPA 335.3 and EPA 9013A

FLOW CHEMISTRY

Cyanide (SAD)

Cyanide (WAD)

Solids (Inorganic)

Fluoride - Solids [Soil] (060)

INOR-181-6002, LAB-181-4014; BC MOE LABORATORY MANUAL SECTION B and SM 4110

ION CHROMATOGRAPHY - 5:1 AQUEOUS EXTRACTION

Fluoride

Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (049)

INOR-181-6029, LAB-181-4016; modified from EPA 3060A and SM 3500-CR B

COLORIMETRIC - EXTRACTION

Hexavalent chromium

Solids (Inorganic)

Metals - Solids (007)

LAB-181-4001, MET-181-6102; modified from EPA 1311 (PREPARATION) and EPA 6020A (ANALYSIS)

ICP/MS - TCLP

Antimony

Arsenic

Barium

Bervllium

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Mercury

Nickel

Selenium

Silver

Thallium

Uranium

Vanadium

Zinc

Zirconium

Solids (Inorganic)

Metals - Solids [Saturated Paste] (097)

LAB-181-4022, INOR-181-6101; BC MOE LABORATORY MANUAL SECTION B

ICP/OES

Calcium

Magnesium

Potassium

Sodium

^{† &}quot;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).

Sulphur

Solids (Inorganic)

Metals - Solids [Soil] (005)

LAB-181-4008, MET-181-6102; BC MOE LABORATORY MANUAL, SALM (PREPARATION) and EPA 200.2 (ANALYSIS) and EPA 6020A (ANALYSIS)

ICP/MS - DIGESTION

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Chromium

Cobalt

Copper

Lead

Lithium

Mercury

Molybdenum

Nickel

Selenium

Silver

Thallium

Tin

Tungsten

Uranium

Vanadium

Zinc

Zirconium

Solids (Inorganic)

Metals - Solids [Soil] (008)

LAB-181-4008, MET-181-6101; BC MOE LABORATORY MANUAL, SALM (PREPARATION) and EPA 200.2 (ANALYSIS) and EPA 6010C (ANALYSIS)

ICP/OES - DIGESTION

Aluminum

Barium

Calcium

Chromium

Copper

Iron

Magnesium

Manganese

Nickel

Potassium

Sodium

Strontium

Titanium

Vanadium

Zinc

^{† &}quot;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).

Solids (Inorganic)

Modified Acid Base Accounting (ABA) - Solids [Ore, Sediment, Sludge, Soil, Tailings] (077) ARD-181-18000; MEND PROJECT 1.16.1A (1989)

TITE ATION

TITRATION

Neutralization Potential (NP)

Solids (Inorganic)

Moisture - Solids [Soil] (009) INOR-181-6030; ASTM D2974-07A

GRAVIMETRIC

Moisture %

Solids (Inorganic)

Oil and Grease - Solids [Soil] (056)

ORG-180-5104; modified from BC MOE LABORATORY MANUAL SECTION D

GRAVIMETRIC - EXTRACTION

Mineral Oil and Grease

Total Oil and Grease

Solids (Inorganic)

Percent Saturation - Solids [Saturated Paste] (096)

LAB-181-4022; BC MOE LABORATORY MANUAL SECTION B

GRAVIMETRIC

% Saturation

Solids (Inorganic)

pH - Solids [Saturated Paste] (094)

LAB-181-4022; BC MOE LABORATORY MANUAL SECTION B

pH METER

Hq

Solids (Inorganic)

pH - Solids [Soil] (011)

INOR-181-6031; BC MOE LABORATORY MANUAL SECTION B

METER - EXTRACTION

pH (1:2)

Solids (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Solids [Soil] (068)

INOR-181-6034, LAB-181-4017; modified from EPA 351.2

AUTO COLOR

Total Kieldahl Nitrogen (TKN)

Solids (Inorganic)

Waste Oil - Solids (016)

ORG-180-5120; BC MOE LABORATORY MANUAL SECTION D

GRAVIMETRIC - EXTRACTION

Waste Oil Content

Solids (Microbiology)

Fecal (Thermotolerant) Coliforms - Solids (070)

MIC-181-7007; SM 9221 E

MULTIPLE TUBE FERMENTATION (MPN)

Fecal (Thermotolerant) Coliforms

Solids (Microbiology)

Salmonella - Solids (069)

MIC-181-7008; SM 9260 B

MULTÍPLE TUBE TECHNIQUE (MPN)

Salmonella

^{† &}quot;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).

Solids (Organic)

BTEX and Volatile Petroleum Hydrocarbons (VPH) and Volatile Hydrocarbons (VH) - Solids [Soil] (012) ORG-180-5100; modified from BC MOE LABORATORY MANUAL SECTION D

GC/MS/FID - HEADSPACE

Benzene

Ethylbenzene

m/p-xylene

Methyl t-butyl ether

o-xylene

Styrene

Toluene

Volatile Hyrocarbons (VH): C6-C10

Solids (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Solids [Soil] (013)

ORG-180-5101; modified from BC MOE LABORATORY MANUAL SECTION D

GC/FID - COLD SHAKE EXTRACTION

EPH C10-C19

EPH C19-C32

Solids (Organic)

Leachable Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (089)

LAB-181-4001; EPA 1311 (PREPARATION)

GC/MS

1-Methylnaphthalene

2-Methylnaphthalene

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

Pervlene

Phenanthrene

Pyrene

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (090)

ORG-180-5100; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/MS/FID F1: C6-C10

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (091)

ORG-180-5137; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID

F2: C10-C16 F3: C16-C34

F4: C34-C50

^{† &}quot;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).

Solids (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (014)

ORG-180-5102; modified from BC MOE LABORATORY MANUAL SECTION D

GC/MS - COLD SHAKE EXTRACTION

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

Acridine

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

Quinoline

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (015)

ORG-180-5103; modified from BC MOE LABORATORY MANUAL SECTION D

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

1,4-dichlorobenzene

Acetone (2-Propanone)

Benzene

Bromodichloromethane

Bromoform

Bromomethane

Carbon Tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethane

Chloroform

Chloromethane

cis-1.2-Dichloroethylene

cis-1,3-Dichloropropene

^{† &}quot;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).

Dichlorodifluoromethane

Dichloromethane

Ethylbenzene

Ethylene Dibromide

m/p-xylene

Methyl Ethyl Ketone

Methyl isobutyl Ketone

Methyl t-butyl ether

n-Hexane

o-xylene

Stvrene

Tetrachloroethylene

Toluene

trans-1,2-Dichloroethylene

trans-1,3-Dichloropropene

Trichloroethylene

Trichlorofluoromethane

Vinvl chloride

Volatile Hyrocarbons (VH): C6-C10

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (088)

LAB-180-5135; EPA 1311 (PREPARATION)

GC/MS - HEADSPACE

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

1,3-Dichlorobenzene

1,4-Dichlorobenzene

Benzene

Bromodichloromethane

Bromoform

Carbon disulfide

Carbon tetrachloride

Chlorobenzene

Chloroethane

Chloroform

cis-1,2-Dichloroethylene

cis-1,3-Dichloropropene

Dibromochloromethane

Dichloromethane

Ethylbenzene

Ethylene dibromide

m,p-Xylene

Methyl t-butyl ether (MTBE)

o-Xvlene

Styrene

Tetrachloroethylene

^{† &}quot;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).

```
Toluene
```

trans-1,2-Dichloroethylene

trans-1,3-Dichloropropene

Trichloroethylene

Trichlorofluoromethane

Vinyl chloride

Tissue (Inorganic)

Metals - Tissue (017)

LAB-181-4007, MET-181-6101; modified from BC MOE LABORATORY MANUAL SECTION C (PREPARATION)

and EPA 6010C (ANALYSIS)
ICP/OES - DIGESTION

Calcium

Magnesium

Phosphorus

Potassium

Sodium

Tissue (Inorganic)

Metals - Tissue (062)

LAB-181-4007, MET-181-6102; modified from BC MOE LABORATORY MANUAL SECTION C and EPA 6020A ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Manganese

Molybdenum

Nickel

Selenium

Silver

Thallium

Vanadium

Zinc

Tissue (Inorganic)

Total Mercury - Tissue (018)

LAB-181-4007, MET-181-6100; modified from EPA 3050B and EPA 7471B

COLD VAPOUR AA - DIGESTION

Mercury

Water (Inorganic)

Acidity - Water (071)

INOR-181-6020; modified from SM 2310 B

TITRIMETRIC

Acidity

^{† &}quot;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).

Acidity - Water (084)

INOR-181-6000; modified from SM 2310 B

AUTO TITRIMETRIC

Acidity

Water (Inorganic)

Alkalinity - Water (019)

INOR-181-6000; modified from SM 2320 B

AUTO TITRIMETRIC

Alkalinity (pH 4.5)

Water (Inorganic)

Ammonia - Water (020)

INOR-181-6001; modified from SM 4500-NH3 G

SEGMENTED FLOW

Ammonia

Water (Inorganic)

Anions - Water (021) INOR-181-6002; modified from SM 4110 B

ION CHROMATOGRAPHY

Bromate

Bromide

Chloride

Fluoride

Nitrate

Nitrite

Sulfate

Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water (041)

INOR-181-6032; modified from BC MOE LABORATORY MANUAL SECTION D

D.O. METER

BOD (5 day)

CBOD (5 day)

Water (Inorganic)

Carbon - Water (022)

INOR-181-6003: modified from SM 5310 B

COMBUSTION - IR

Organic Carbon

Total Carbon

Water (Inorganic)

Chemical Oxygen Demand (COD) - Water (023)

INOR-181-6004: modified from SM 5220 D

SPECTROPHOTOMETRIC

COD

Water (Inorganic)

Chlorophyll A - Water (100)

INOR-181-6025; SM 10200 H

SPECTROPHOTOMETRIC

Chlorophyll a

^{† &}quot;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).

Colour - Water (063)

INOR-181-6033; modified from BC MOE LABORATORY MANUAL SECTION B

SPECTROPHOTOMETRIC (UV-VIS)

Apparent Colour

True Colour

Water (Inorganic)

Conductivity - Water (024)

INOR-181-6000; modified from SM 2510 B

CONDUCTIVITY METER

Conductivity (25°C)

Water (Inorganic)

Conductivity - Water (082) ARD-181-18012: SM 2510 B

CONDUCTIVITY METER

Conductivity (25°C)

Water (Inorganic)

Cyanide - Water (025)

INOR-181-6010; modified from EPA 335.3

FLOW CHEMISTRY

Cyanide (SAD)

Cyanide (WAD)

Water (Inorganic)

Dissolved Mercury - Water (027)

LAB-181-4015, MET-181-6100; modified from EPA 245.7

COLD VAPOUR AA

Mercury

Water (Inorganic)

Dissolved Metals - Water (028)

LAB-181-4015, MET-181-6102; modified from SM 3125 B

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Manganese

Molybdenum

Nickel

Phosphorus

Selenium

Silver

Strontium

Thallium

^{† &}quot;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).

Tin

Titanium

Tunasten

Uranium

Vanadium

Zinc

Zirconium

Water (Inorganic)

Dissolved Metals - Water (029)

LAB-181-4015, MET-181-6101; modified from SM 3120 B

ICP/OÉS

Calcium

Iron

Magnesium

Manganese

Phosphorus

Potassium

Silicon

Sodium

Sulphur

Water (Inorganic)

Hexavalent Chromium - Water (030)

INOR-181-6005; modified from SM 3500-CR B

COLORIMETRIC

Hexavalent Chromium

Water (Inorganic)

Nitrite and Nitrate and Nitrate plus Nitrite - Water (099)

INOR-181-6026; modified from SM 4500-NO2- B and SM 4500-NO3- F

COLORIMETRIC

Nitrate (calculation)

Nitrate plus Nitrite

Nitrite

Water (Inorganic)

Nitrogen - Water (031)

INOR-181-6006; modified from SM 4500-N

COMBUSTION - IR

Total Dissolved Nitrogen

Total Nitrogen

Water (Inorganic)

Oil and Grease - Water (045)

ORG-180-5132; modified from BC MOE LABORATORY MANUAL SECTION D

GRAVIMETRIC - EXTRACTION

Mineral Oil and Grease

Total Oil and Grease

Water (Inorganic)

Oxidation Reduction Potential (ORP) - Water (083)

ARD-181-18013; SM 2580 B

ORP MÉTER

Oxidation Reduction Potential

^{† &}quot;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).

pH - Water (032) INOR-181-6000; modified from SM 4500-H+ pH METER pH

Water (Inorganic)

pH - Water (081) ARD-181-18011; SM 4500-H+ pH METER pH

Water (Inorganic)

Phosphate - Water (066) INOR-181-6021; modified from SM 4500-P F AUTO COLOR Phosphate

Water (Inorganic)

Phosphorus - Water (033)

LAB-181-4015, INOR-181-6011; modified from SM 4500-P B and SM 4500-P F

AUTO COLOR

Total Dissolved Inorganic Phosphorus

Total Dissolved Phosphorus
Total Inorganic Phosphorus

Total Phosphorus

Water (Inorganic)

Reactive Silica - Water (034)
INOR-181-6012; modified from SM 4500-SIO2
AUTO COLOR

Reactive Silica

Water (Inorganic)

Solids - Water (035)

INOR-181-6007; SM 2540 C and SM 2540 D and SM 2540 E

GRAVIMETRIC

Fixed Solids

Total Dissolved Solids
Total Suspended Solids

Volatile Solids

Volatile Suspended Solids

Water (Inorganic)

Sulphide - Water (101)
INOR-181-6035; modified from SM 4500-S2- D
COLORIMETRIC
Sulphide

Water (Inorganic)

Tannin and Lignin - Water (075)
INOR-181-6018; modified from SM 5550 B
SPECTROPHOTOMETRIC

Tannin and Lignin

Water (Inorganic)

Total Mercury - Water (037)
MET-181-6100; modified from EPA 245.7
COLD VAPOUR AA - DIGESTION
Mercury

^{† &}quot;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).

Total Mercury - Water [Seawater] (061) MET-181-6100; modified from EPA 245.7 **COLD VAPOUR AA - DIGESTION**

Mercurv

Water (Inorganic)

Total Metals - Water (038)

LAB-181-4009, MET-181-6102; modified from SM 3125 B

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Manganese

Molybdenum

Nickel

Phosphorus

Selenium

Silver

Strontium

Thallium

Tin

Titanium

Tunasten

Uranium

Vanadium

Zinc

Zirconium

Water (Inorganic)

Total Metals - Water (039) LAB-181-4009, MET-181-6101; modified from SM 3120 B ICP/OES - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

^{† &}quot;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).

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silicon

Silver

Sodium

Strontium

Sulphur

Tin

Titanium

Uranium

Vanadium

Zinc

Water (Inorganic)

Total Metals - Water [Seawater] (057)

LAB-181-4009, MET-181-6102; modified from SM 3125 B

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Manganese

Molybdenum

Nickel

Selenium

Silver

Strontium

Thallium

Tin

Titanium

Tungsten

Uranium

Vanadium

Zinc

Zirconium

^{† &}quot;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).

Turbidity - Water (040)

INOR-181-6008; BC MOE LABORATORY MANUAL SECTION B

TURBIDIMETRIC

Turbidity

Water (Microbiology)

Coliforms - Water (052)

MIC-181-7004; SM 9223 B

ENZYME SUBSTRATE (MPN)

Escherichia coli (E. coli)

Total Coliforms

Water (Microbiology)

Coliforms - Water (065)

MIC-181-7003; SM 9222 B and SM 9222 G

MEMBRANE FILTRATION (mENDO)

Escherichia coli (E. coli)

Total Coliforms

Water (Microbiology)

Fecal (Thermotolerant) Coliforms - Water (053)

MIC-181-7005; SM 9222 D

MEMBRANE FILTRATION (mFC)

Fecal (Thermotolerant) Coliforms

Water (Microbiology)

Heterotrophic Plate Count (HPC) - Water (043)

MIC-181-7002; SM 9215 E

ENZYME SUBSTRATE

Heterotrophic Plate Count (HPC)

Water (Organic)

BTEX - Water (044)

ORG-180-5130; modified from EPA 5012A and EPA 8260C

GC/MS - HEADSPACE

Benzene

Ethylbenzene

m/p-xylene

Methyl t-butyl ether

o-xylene

Styrene

Toluene

Water (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Water (064)

ORG-180-5134; modified from BC MOE LABORATORY MANUAL SECTION D

GC/FID - EXTRACTION

EPH C10-C19

EPH C19-C32

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (092)

ORG-180-5130; BC MOE LABORATORY MANUAL and EPA 5021A and EPA 8260C

GC/MS/FID

F1: C6-C10

^{† &}quot;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).

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (093) ORG-180-5134; BC MOE LABORATORY MANUAL

GC/FID

F2: C10-C16

F3: C16-C34

F4: C34-C50

Water (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Water (047)

ORG-180-5133; modified from BC MOE LABORATORY MANUAL SECTION D

GC/MS - EXTRACTION

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

Acridine

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

Pvrene

Quinoline

Water (Organic)

Volatile Hydrocarbons (VH) - Water (076)

ORG-180-5130; modified from BC MOE LABORATORY MANUAL SECTION D

GC/FID - HEADSPACE

Volatile Hyrocarbons (VH): C6-C10

Water (Organic)

Volatile Organic Compounds (VOC) - Water (046)

ORG-180-5131; modified from BC MOE LABORATORY MANUAL SECTION D

GC/MS - PURGE AND TRAP

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

1,2,4-Trichlorobenzene

1,3-Dichlorobenzene

1,4-dichlorobenzene

Acetone (2-Propanone)

Benzene

^{† &}quot;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).

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

Vinvl Chloride

Volatile Hyrocarbons (VH): C6-C10

^{† &}quot;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).