



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

---

**Membership Number:** 1719  
**Laboratory Name:** ALS Environmental (Vancouver)  
**Parent Institution:** ALS Canada Ltd.  
**Address:** 8081 Lougheed Highway Suite 100 Burnaby BC V5A 1W9  
**Contact:** Ms. Helenita Franco  
**Phone:** (604) 253-4188  
**Fax:** (604) 253-6700  
**Email:** quality.vancouver@alsglobal.com

---

**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** October 7, 2020  
**Valid To:** June 11, 2021

---

### Scope of Accreditation

#### **Air (Inorganic)**

Dustfall - Air [Dustfall] (227)  
VA-TM-1039; ASTM D1739-98 and BC MOE LABORATORY MANUAL  
GRAVIMETRIC  
Fixed Dustfall  
Total Dustfall  
Total Insoluble Dustfall  
Total Soluble Dustfall

#### **Air (Inorganic)**

Mercury - Air [Dustfall] (271)  
NA-TM-1005, NA-TP-2012, VA-TP-2063; modified from BC MOE LABORATORY MANUAL and EPA 1631E  
COLD VAPOUR AAS - DIGESTION  
Mercury

#### **Air (Inorganic)**

Metals - Air [Dustfall] (224)  
NA-TM-1002, NA-TP-2007, VA-TP-2063; modified from BC MOE LABORATORY MANUAL and EPA 6020B  
ICP/MS - DIGESTION  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth

† "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)

Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Thallium  
Tin  
Uranium  
Vanadium  
Zinc

**Air (Inorganic)**

Total Particulates - Air [Filter, Particulate] (035)

VA-TM-1041; modified from ASTM D2009-65 and BC WORKERS COMPENSATION BOARD STANDARDS (BCWCB) 1150

GRAVIMETRIC

Respirable Dust

Total Particulate Matter

**Air (Organic)**

Volatile Organic Compounds (VOC) - Air (206)

VA-TM-1109; modified from EPA TO-17

GC/MS

1,1-Dichloroethane

1,1-Dichloroethylene

1,1-Dichloropropene

1,1,1-Trichloroethane

1,1,1,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1,2-Trichlorotrifluoroethane

1,1,2,2-Tetrachloroethane

1,2-Dibromo-3-chloropropane (DBCP)

1,2-Dibromoethane (Ethylene dibromide)

1,2-Dichlorobenzene

1,2-Dichloroethane

† "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)

1,2,3-Trichlorobenzene  
1,2,3-Trichloropropane  
1,2,4-Trichlorobenzene  
1,2,4-Trimethylbenzene  
1,3-Butadiene  
1,3-Dichlorobenzene  
1,3-Dichloropropane  
1,3,5-Trimethylbenzene  
1,4-Dichlorobenzene  
2-Butanone (Methyl ethyl ketone, MEK)  
2-Chlorophenol  
2-Chlorotoluene  
2-Hexanone (Methyl butyl ketone, MBK)  
2-Propanol (Isopropyl alcohol)  
2,2-Dichloropropane  
4-Chlorotoluene (p-Chlorotoluene)  
4-isopropyltoluene (p-Cymene)  
4-Methyl-2-pentanone (MIBK)  
Acetone (2-Propanone)  
Benzene  
Biphenyl (1,1-Biphenyl)  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chloroethane (Ethyl Chloride)  
Chloroethene (Vinyl chloride)  
Chloroform  
Chloromethane (Methyl chloride)  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Cyclohexane  
Decane  
Dibromochloromethane  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane (Methylene Chloride)  
Ethyl acetate  
Ethylbenzene

† "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)

Hexachlorobutadiene  
Isopropylbenzene (Cumene)  
m,p-Xylene  
Methyl tert-butyl ether (MTBE)  
Methylcyclohexane  
n-Butylbenzene  
n-Heptane  
n-Hexane  
n-Octane  
n-Propylbenzene  
Naphthalene  
o-Xylene  
sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane

#### **Air (Organic)**

Volatile Organic Compounds (VOC) - Air (207)

VA-TM-1109; modified from EPA TO-17  
GC/FID

F1: C6-C10

F2: C10-C16

Total Volatile Organic Compounds (TVOC): >C10-C12

Total Volatile Organic Compounds (TVOC): >C12-C16

Total Volatile Organic Compounds (TVOC): >C6-C8

Total Volatile Organic Compounds (TVOC): >C8-C10

Volatile Hydrocarbons (VH): C6-C13

#### **Dust (Inorganic)**

Soluble Anions - Dustfall (255)

NA-TM-1001, VA-TM-1039; modified from BC MOE LABORATORY MANUAL and EPA 300.0 and SM 4110  
ION CHROMATOGRAPHY

Chloride

Nitrate

#### **Food**

Arsenic Speciation - Food [Egg, Fresh Fruit, Meat, Processed Food, Vegetables] (236)

NA-TM-1002, NA-TP-2007, VA-TM-1082; modified from CFIA SOM-DAR-CHE-053-04 and EPA 6020A  
HPLC - ICP/MS

Arsenate (As(V))

Arsenite (As(III))

Arsenobetaine (AsB)

Arsenocholine (AsC)

† "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)

Dimethylarsinic acid (DMA)  
Monomethyl arsenate (MMA)

**Food (Inorganic)**

Methyl mercury - Seafood (272)  
NA-TM-1002, VA-TM-1088; modified from FDA METHOD 4.8  
HPLC - ICP/MS  
Methyl mercury

**Oil (Organic)**

Total Polychlorinated Biphenyls (PCB) - Oil (080)  
VA-TM-1118, VA-TP-2116; modified from EPA 3620C and EPA 3660B and EPA 3665A and EPA 600/4-81/045 and EPA 8082A  
GC/ECD  
Aroclor 1016  
Aroclor 1221  
Aroclor 1232  
Aroclor 1242  
Aroclor 1248  
Aroclor 1254  
Aroclor 1260  
Aroclor 1262  
Aroclor 1268  
Total PCB

**Paint (Inorganic)**

Lead - Paint (261)  
NA-TM-1002, NA-TP-2004; modified from EPA 200.2 and EPA 6020B  
ICP/MS - DIGESTION  
Lead

**Soil (Inorganic)**

Acidity - Solids [Soil] (257)  
VA-TM-1053, VA-TM-1074; modified from MEND REPORT 1.20.1 and SM 2320 B  
TITRIMETRIC - SHAKEFLASK EXTRACTION  
Acidity

**Soil (Inorganic)**

Alkalinity - Solids [Soil] (258)  
VA-TM-1053, VA-TM-1074; modified from MEND REPORT 1.20.1 and SM 2320 B  
TITRIMETRIC - SHAKEFLASK EXTRACTION  
Alkalinity

**Soil (Inorganic)**

Anions - Solids [Leachate] (256)  
NA-TM-1001, VA-TM-1078; modified from BC MOE LABORATORY MANUAL and EPA 300.0 and SM 4110  
ION CHROMATOGRAPHY (IC) - FIXED RATIO EXTRACTION  
Chloride  
Chloride  
Sulphate  
Sulphate (Sulfate)

† "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)

**Soil (Inorganic)**

Leachable Anions - Solids [Soil] (244)

NA-TM-1001, VM-TM-1074; modified from EPA 300.1 and MEND REPORT 1.20.1

IC - SHAKEFLASK EXTRACTION

Bromide

Chloride

Fluoride

Nitrate as Nitrogen

Nitrite as Nitrogen

Sulphate (Sulfate)

**Soil (Inorganic)**

Leachable Metals - Solids [Soil] (247)

NA-TM-1002, NA-TP-2007, VA-TM-1074; modified from EPA 6020B and MEND REPORT 1.20.1

ICP/MS - SHAKEFLASK EXTRACTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silicon

Silver

Sodium

Strontium

Thallium

Tin

Uranium

Vanadium

Zinc

† "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)

**Soil (Inorganic)**

pH - Solids [Soil] (250)

VA-TM-1074; modified from MEND REPORT 1.20.1 and SM 4500-H

pH METER-Shake flask Extraction

pH

**Soil (Microbiology)**

Fecal (Thermotolerant) Coliforms - Solids [Soil] (245)

VA-TM-1200; modified from EPA 1680

MOST PROBABLE NUMBER

Fecal (Thermotolerant) Coliforms

**Solids (Inorganic)**

Acid Volatile Sulphide (AVS) - Solids [Soil] (230)

VA-TM-1021; modified from EPA 821/R-91/100

COLORIMETRIC - EXTRACTION

Acid Volatile Sulfides

**Solids (Inorganic)**

Anions - Solids [Soil] (148)

NA-TM-1001, VA-TP-2066; modified from EPA 300.1 and SM 4110 B and SOIL SAMPLING & METHODS OF ANALYSIS CHAPTER 15

IC-SATURATED EXTRACTION

Bromide

Chloride

Fluoride

Nitrate-N

Nitrite

Sulphate

**Solids (Inorganic)**

Conductivity - Solids [Soil] (147)

VA-TM-1053, VA-TP-2066; modified from SM 2510 B and SOIL SAMPLING & METHODS OF ANALYSIS CHAPTER 15

METER - SATURATION EXTRACTION

Conductivity

**Solids (Inorganic)**

Cyanide - Solids [Soil] (213)

NA-TM-1003, VA-WI-3019; modified from BC MOE LABORATORY MANUAL and ISO 14403 and ON MOECC E3015 and SM 4500-CN- I

AUTO COLOR - DISTILLATION-EXTRACTION

Cyanide (SAD)

Cyanide (WAD)

**Solids (Inorganic)**

Cyanide - Solids [Soil] (214)

NA-TM-1003, VA-WI-3019; modified from ASTM 7237 and BC MOE LABORATORY MANUAL and ON MOECC E3015

AUTO COLOR/GAS DIFFUSION-EXTRACTION

Cyanide, Free

† "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)**

Flashpoint - Solids [Ash] (264)  
VA-TM-1090; modified from ASTM D93-15  
PENSKE-MARTEN CLOSED CUP  
Flashpoint

**Solids (Inorganic)**

Leachable Mercury - Solids [Soil] (270)  
NA-TM-1005, NA-TP-2012, VA-TM-1074; modified from MEND REPORT 1.20.1  
COLD VAPOUR AA - SPECTROMETRIC SHAKE FLASK EXTRACTION  
Mercury

**Solids (Inorganic)**

Leachable Mercury - Solids [Waste] (267)  
NA-TM-1005, NA-TP-2012, VA-TM-1071; modified from BC MOE ENVIRONMENTAL MANAGEMENT ACT  
HAZARDOUS WASTE REGULATION (EMA/HWR) and EPA 1631E  
CVAAS-MELP EXTRACTION  
Mercury

**Solids (Inorganic)**

Leachable Mercury - Solids [Waste] (268)  
NA-TM-1005, NA-TM-1700, NA-TP-2012; modified from EPA 1311 (PREPARATION) and EPA 1631E  
(ANALYSIS)  
COLD VAPOUR AA - TCLP EXTRACTION  
Mercury

**Solids (Inorganic)**

Leachable Metals - Solids (121)  
VA-TM-1066, VA-TM-1071, VA-TP-2072; modified from BC MOE ENVIRONMENTAL MANAGEMENT ACT  
HAZARDOUS WASTE REGULATION (EMA/HWR) and EPA 6010D  
ICP/OES- MLEP EXTRACTION  
Arsenic  
Barium  
Boron  
Cadmium  
Chromium  
Copper  
Lead  
Selenium  
Silver  
Uranium  
Zinc

**Solids (Inorganic)**

Leachable Metals - Solids (122)  
NA-TM-1700, VA-TM-1066, VA-TP-2072; modified from EPA 1311 (PREPARATION) and EPA 6010D  
(ANALYSIS)  
ICP/OES - EXTRACTION - TCLP  
Antimony  
Arsenic  
Barium  
Beryllium  
Boron

† "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)



Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Nickel  
Selenium  
Silver  
Thallium  
Vanadium  
Zinc  
Zirconium

**Solids (Inorganic)**

Leachable Metals - Solids [Soil] (235)

NA-TM-1002, NA-TM-1700, NA-TP-2007; modified from BC PROTOCOL 13 (ANALYSIS) and EPA 1311 (PREPARATION) and EPA 6020B (ANALYSIS)

ICP/MS - Extraction - TCLP

Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Nickel  
Selenium  
Silver  
Thallium  
Uranium  
Vanadium  
Zinc  
Zirconium

† “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)**

Mercury - Solids [Soil] (269)

NA-TM-1005, NA-TP-2004, NA-TP-2012; modified from BC MOE LABORATORY MANUAL, SALM (PREPARATION) and EPA 1631E (ANALYSIS) and EPA 200.2 (ANALYSIS)  
COLD VAPOUR AAS - DIGESTION

Mercury

**Solids (Inorganic)**

Metals - Solids [Soil] (152)

NA-TM-1002, NA-TP-2004, NA-TP-2007; modified from BC MOE LABORATORY MANUAL, SALM (PREPARATION) and EPA 200.2 (ANALYSIS) and EPA 6020B (ANALYSIS)  
ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silver

Sodium

Strontium

Sulphur (Sulfur)

Tellurium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Zinc

† "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)

Zirconium

**Solids (Inorganic)**

Metals - Solids [Soil] (153)

VA-TM-1066, VA-TP-2066, VA-TP-2072; modified from EPA 6010D and SOIL SAMPLING & METHODS OF ANALYSIS CHAPTER 15

ICP/OES - SATURATION EXTRACTION

Calcium

Magnesium

Potassium

Sodium

**Solids (Inorganic)**

Metals - Solids [Soil] (273)

NA-TM-1002, NA-TP-2007, VA-TM-1021; modified from EPA 6020B and EPA 821/R-91/100

ICP/MS - SEM EXTRACTION

Arsenic

Cadmium

Copper

Lead

Nickel

Zinc

**Solids (Inorganic)**

Metals - Solids [Soil] (275)

NA-TM-1002, NA-TP-2007, NA-TP-2008; modified from EPA 6020B and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15

ICP/MS - SATURATION EXTRACTION

Calcium

Magnesium

Potassium

Sodium

**Solids (Inorganic)**

Methyl Mercury - Solids [Soil] (173)

VA-TM-1062; modified from EPA 1630

P&T - GC - CVAFS - EXTRACTION

Methyl mercury

**Solids (Inorganic)**

Moisture - Solids [Soil] (089)

NA-TM-1200; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GRAVIMETRIC

Percent Moisture

**Solids (Inorganic)**

Oil and Grease - Solids [Soil] (239)

VA-TM-1125; modified from BC MOE LABORATORY MANUAL

GRAVIMETRIC - EXTRACTION

Mineral 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)

**Solids (Inorganic)**

Paint Filter - Solids [Paint] (262)  
VA-TM-1055; modified from EPA 9095B  
FILTRATION  
Paint Filter (Free Liquid)

**Solids (Inorganic)**

Percent Saturation - Solids [Saturated Paste] (149)  
VA-TP-2066; modified from SOIL SAMPLING & METHODS OF ANALYSIS CHAPTER 15  
GRAVIMETRIC - SATURATED PASTE  
Percent Saturation

**Solids (Inorganic)**

pH - Solids [Soil] (120)  
VA-TM-1078, VA-TP-2066; modified from SM 4500-H+ B and SOIL SAMPLING & METHODS OF ANALYSIS  
CHAPTER 15  
METER - SATURATION EXTRACTION  
pH

**Solids (Inorganic)**

pH - Solids [Soil] (169)  
VA-TM-1078; modified from BC MOE LABORATORY MANUAL and SM 4500-H+ B  
METER - FIXED RATIO EXTRACTION  
pH

**Solids (Inorganic)**

Simultaneously Extracted Metals (SEM) - Solids [Soil] (228)  
NA-TM-1005, NA-TP-2011, NA-TP-2012, VA-TM-1021; modified from EPA 1631E and EPA 821/R-91/100  
CVAFS - SEM EXTRACTION  
Mercury

**Solids (Inorganic)**

Simultaneously Extracted Metals (SEM) - Solids [Soil] (229)  
VA-TM-1021, VA-TM-1066, VA-TP-2072; modified from EPA 6010D and EPA 821/R-91/100  
ICP/OES - SEM EXTRACTION  
Arsenic  
Cadmium  
Copper  
Lead  
Nickel  
Zinc

**Solids (Inorganic)**

Waste Oil - Solids (123)  
VA-TM-1111; BC MOE LABORATORY MANUAL  
GRAVIMETRIC - EXTRACTION  
Waste Oil Content

**Solids (Organic)**

Extractable Hydrocarbons - Solids [Soil] (184)  
NA-TM-1106, NA-TP-2106; modified from BC MOE LABORATORY MANUAL and EPA 3570  
GC/FID - EXTRACTION (COLD SHAKE)  
EPH C10-C19 (sg)  
EPH C19-C32 (sg)  
Extractable Petroleum Hydrocarbons (EPH): C10-C19

† "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).

Extractable Petroleum Hydrocarbons (EPH): C19-C32

**Solids (Organic)**

Glycols - Solids [Soil] (156)

VA-TM-1113; modified from EPA 8015B

GC/FID - EXTRACTION

Diethylene glycol

Ethylene glycol

Propylene glycol

Triethylene glycol

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (189)

NA-TM-1100, NA-TP-2100; modified from ALBERTA ENVIRONMENT INTERPRETATION, SEPT 2003 and CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD (DEC 2000 NO. 1310)

GC/FID - TUMBLER EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (190)

NA-TM-1100; modified from ALBERTA ENVIRONMENT INTERPRETATION, SEPT 2003 and CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD (DEC 2000 NO. 1310)

GRAVIMETRIC - TUMBLER EXTRACTION

F4: Gravimetric

F4G-SG: Gravimetric Heavy Hydrocarbons - Silica

**Solids (Organic)**

Phenols - Solids [Soil] (071)

VA-TM-1122, VA-TP-2113; modified from EPA 3570 and EPA 8270D and KNAPP 1979

GC/MS - EXTRACTION

2-Chlorophenol

2-Methylphenol (o-Cresol)

2,3-Dichlorophenol

2,3,4-Trichlorophenol

2,3,4,5-Tetrachlorophenol

2,3,4,6-Tetrachlorophenol

2,3,5-Trichlorophenol

2,3,5,6-Tetrachlorophenol

2,3,6-Trichlorophenol

2,4-Dichlorophenol + 2,5-Dichlorophenol

2,4-Dimethylphenol

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,6-Dichlorophenol

3-Chlorophenol

3,4-Dichlorophenol

3,4,5-Trichlorophenol

3,5-Dichlorophenol

4-Chloro-3-methylphenol

† "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)

4-Chlorophenol  
4-Methylphenol (p-Cresol)  
m-Cresol  
Pentachlorophenol  
Phenol

**Solids (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (185)  
NA-TM-1106, NA-TP-2103; modified from EPA 3570 and EPA 8270D  
GC/MS - EXTRACTION (COLD SHAKE)

2-Methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b,j)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)**

Total Polychlorinated Biphenyls (PCB) - Solids [Soil] (112)  
VA-TM-1119, VA-TP-2116; modified from EPA 3570 and EPA 3620C and EPA 3660B and EPA 3665A and EPA 8082A

GC/ECD - EXTRACTION  
Aroclor 1016  
Aroclor 1221  
Aroclor 1232  
Aroclor 1242  
Aroclor 1248  
Aroclor 1254  
Aroclor 1260  
Aroclor 1262  
Aroclor 1268  
Total PCB

† "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)**

Volatile Hydrocarbons (VH) - Solids [Soil] (202)

NA-TM-1102, NA-TP-2102; modified from BC MOE LABORATORY MANUAL and CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 5021A  
GC/FID - HEADSPACE

F1: C6-C10

VH: C6-C10

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Solids (263)

NA-TM-1102, VA-TM-1126; modified from EPA 1311 (PREPARATION) and EPA 8260C (ANALYSIS)  
GC/MS - HEADSPACE - TCLP

1,1-Dichloroethene

1,2-Dichlorobenzene

1,2-Dichloroethane

1,4-Dichlorobenzene

Benzene

Bromodichloromethane

Bromoform

Carbon tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethene (Vinyl chloride)

Chloroform

Dichloromethane (Methylene Chloride)

Ethylbenzene

m,p-Xylene

Methyl ethyl ketone

o-Xylene

Tetrachloroethylene

Toluene

Trichloroethylene

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Solids [Soil] (201)

NA-TM-1102, NA-TP-2102; modified from EPA 5021A and EPA 8260C  
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

1,2,4-Trimethylbenzene

1,3-Dichlorobenzene

† "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)

1,3,5-Trimethylbenzene  
1,4-Dichlorobenzene  
4-Isopropylbenzene  
Benzene  
Bromodichloromethane  
Bromoform  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane (Ethyl Chloride)  
Chloroethene (Vinyl chloride)  
Chloroform  
Chloromethane (Methyl chloride)  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Isopropylbenzene (Cumene)  
m,p-Xylene  
Methyl t-butyl ether  
n-Propylbenzene  
Naphthalene  
o-Xylene  
Styrene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane

**Swab (Organic)**

Total Polychlorinated Biphenyls (PCB) - Solids [Swab] (249)

VA-TM-1120, VA-TP-2116; modified from EPA 3620C and EPA 3660B and EPA 3665A and EPA 8082A  
GC/ECD - EXTRACTION

Aroclor 1016  
Aroclor 1221  
Aroclor 1232  
Aroclor 1242  
Aroclor 1248  
Aroclor 1254  
Aroclor 1260  
Aroclor 1262  
Aroclor 1268

† "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)



**Tissue (Inorganic)**

Ashfree - Tissue (259)  
VM-TM-1051; modified from SM 10300  
GRAVIMETRIC  
Ash-free weight

**Tissue (Inorganic)**

Lipid Content - Tissue (241)  
VA-TM-1112; modified from EPA 3570 and EPA 8290A  
GRAVIMETRIC  
Lipid Content

**Tissue (Inorganic)**

Methyl Mercury - Tissue (172)  
VA-TM-1062; modified from EPA 1630  
P&T - GC - CVAFS - DIGESTION  
Methyl mercury

**Tissue (Inorganic)**

Moisture - Tissue (090)  
VA-TM-1087; modified from PUGET SOUND PROTOCOLS  
GRAVIMETRIC  
Percent Moisture

**Tissue (Inorganic)**

Selenium Speciation - Tissue (253)  
NA-TM-1002, NA-TP-2007, VA-TM-1085; CFIA METHOD SOM-DAR CHE-053-04  
HPLC - ICP/MS  
Selenium (IV)  
Selenium (VI)  
SelenoMethionine

**Tissue (Inorganic)**

Total Mercury - Tissue (266)  
NA-TM-1005, NA-TP-2006, NA-TP-2012; modified from EPA 1631E and EPA 200.3  
COLD VAPOUR AA - SPECTROMETRIC  
Mercury

**Tissue (Inorganic)**

Total Metals - Tissue (100)  
NA-TM-1002, NA-TP-2006, NA-TP-2007; modified from EPA 200.3 and EPA 6020A  
ICP/MS - DIGESTION  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Cesium  
Chromium

† "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)

Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Rubidium  
Selenium  
Silver  
Sodium  
Strontium  
Sulphur (Sulfur)  
Tellurium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc  
Zirconium

**Urine (Inorganic)**

Creatinine - Biomaterials [Urine] (234)

VA-TM-1052; THERMO DRI CREATININE-DETECT SPECIMEN VALIDITY TEST  
COLORIMETRIC

Creatinine

**Urine (Organic)**

Arsenic Speciation - Biomaterials [Urine] (233)

NA-TM-1002, NA-TP-2007, VA-TM-1081; modified from CDC METHOD ID ITU003B, 2004 and EPA 6020A  
HPLC-ICPMS

Arsenate (As(V))

Arsenite (As(III))

Arsenobetaine (AsB)

Dimethylarsinic acid (DMA)

Monomethyl arsenate (MMA)

Total Arsenic Species

Total Inorganic Arsenic

Total Inorganic Arsenic and Methylated Metabolites

† "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)**

Acidity - Water (219)

VA-TM-1053; modified from SM 2310

TITRIMETRIC

Acidity

**Water (Inorganic)**

Alkalinity - Water (001)

VA-TM-1053; modified from SM 2320 B

TITRIMETRIC

Alkalinity (pH 4.5)

Alkalinity-Bicarbonate

Alkalinity-Carbonate

Alkalinity-Hydroxide

Phenolphthalein Alkalinity

**Water (Inorganic)**

Ammonia - Water (208)

VA-TM-1024; JOURNAL OF ENVIRONMENTAL MONITORING (2005) SECTION 7, P. 37-42

AUTO-FLUORESCENCE

Ammonia

**Water (Inorganic)**

Anions - Water (026)

NA-TM-1001; modified from EPA 300.1

IC

Bromide

Chloride

Fluoride

Nitrate

Nitrate plus Nitrite

Nitrite

Sulfate

**Water (Inorganic)**

Arsenic - Water (232)

NA-TM-1002, NA-TP-2007, VA-TM-1086; modified from USGS Water Resources Investigation Report 02-4144

HPLC - ICPMS

Arsenate (AsV)

Arsenite (AsIII)

Arsenobetaine (AsB)

Dimethylarsinic acid (DMA)

Monomethyl arsenate (MMA)

Total Arsenic Species

Total Inorganic Arsenic

Total Inorganic Arsenic and Methylated Metabolites

**Water (Inorganic)**

Biochemical Oxygen Demand (BOD) - Water (027)

VA-TM-1032; modified from SM 5210 B

D.O. METER

BOD (5 day)

† "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).

CBOD (5 day)  
Soluble Biological Oxygen Demand (SBOD)

**Water (Inorganic)**

Carbon - Water (091)  
VA-TM-1037; modified from SM 5310 B  
IR - COMBUSTION  
Inorganic Carbon  
Organic Carbon  
Total Carbon (TC)

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (028)  
VA-TM-1033; modified from SM 5220 D  
COLOR - DIGESTION  
COD

**Water (Inorganic)**

Chlorophyll A - Water (220)  
VA-TM-1038, VA-TP-2011; modified from EPA 445.0  
FLUORIMETRY  
Chlorophyll a

**Water (Inorganic)**

Colour - Water (015)  
VA-TM-1004; modified from BC MOE Laboratory Manual and SM 2120 C  
COLORIMETRIC  
Apparent Colour  
True Colour

**Water (Inorganic)**

Conductivity - Water (004)  
VA-TM-1053; modified from SM 2510 B  
CONDUCTIVITY METER  
Conductivity (25°C)

**Water (Inorganic)**

Cyanide - Water (209)  
NA-TM-1003; modified from ISO 14403 and SM 4500-CN- I  
AUTO COLOR - DISTILLATION  
Cyanide (SAD)  
Cyanide (WAD)

**Water (Inorganic)**

Cyanide - Water (210)  
NA-TM-1003; modified from ASTM D7237  
AUTO COLOR (GAS DIFFUSION)  
Cyanide, Free

**Water (Inorganic)**

Dissolved Ferrous Iron - Water (242)  
VA-TM-1046, VA-TP-2009; modified from SM 3500-FE  
COLORIMETRIC - FILTRATION  
Ferrous Iron

† "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)**

Dissolved Metals - Water (032)

NA-TM-1002, NA-TP-2002, NA-TP-2007; modified from EPA 6020B and SM 3030 B

ICP/MS - FILTRATION

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Cesium  
Chromium  
Cobalt  
Copper  
Gallium  
Gold  
Indium  
Iron  
Lanthanum  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Niobium  
Phosphorus  
Potassium  
Rhenium  
Rubidium  
Selenium  
Silicon  
Silver  
Sodium  
Strontium  
Sulphur (Sulfur)  
Tantalum  
Tellurium  
Thallium  
Thorium  
Tin  
Titanium

† "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)

Tungsten  
Uranium  
Vanadium  
Yttrium  
Zinc  
Zirconium

**Water (Inorganic)**

Dissolved Metals - Water (036)

NA-TP-2002, VA-TM-1066, VA-TP-2072; modified from EPA 6010D and SM 3030 B

ICP/OES

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

† "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)**

Hexavalent Chromium - Water (276)

NA-TM-1001, VA-TM-1056; modified from EPA 1620B and SM 3500-CR C  
ION CHROMATOGRAPHY

Dissolved Hexavalent Chromium

Hexavalent Chromium

**Water (Inorganic)**

Mercury - Water (136)

NA-TM-1005, NA-TP-2002, VA-TP-2068; modified from EPA 1631E  
CVAFS - BrCl DIGESTION

Mercury

**Water (Inorganic)**

Mercury - Water (265)

NA-TM-1005, NA-TP-2002, NA-TP-2012; modified from EPA 1631E  
COLD VAPOUR AA - SPECTROMETRIC

Mercury

**Water (Inorganic)**

Methyl Mercury - Water (192)

VA-TM-1062; modified from EPA 1630  
P&T GC-CVAFS-DISTILLATION

Methyl mercury

**Water (Inorganic)**

Nitrogen - Water (217)

VA-TM-1047, VA-WI-3046; modified from SM 4500-P J  
AUTO COLOR - DIGESTION

Total Dissolved Nitrogen

Total Nitrogen

**Water (Inorganic)**

Oil and Grease - Water (061)

NA-TM-1107; modified from EPA 1664  
GRAVIMETRIC - EXTRACTION

Mineral Oil and Grease

Total Oil and Grease

**Water (Inorganic)**

pH - Water (018)

VA-TM-1053; modified from SM 4500-H+ B  
pH METER

pH

**Water (Inorganic)**

Phosphorus - Water (179)

VA-TM-1025, VA-TP-2009, VA-WI-3046; modified from SM 4500-P B and SM 4500-P E  
COLOR - DIGESTION (AUTOCLAVE)

Phosphate

Total Dissolved Phosphorus

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).

**Water (Inorganic)**

Reactive Silica - Water (008)  
VA-TM-1018; modified from SM 4500-SIO2 D  
COLORIMETRIC  
Reactive Silica

**Water (Inorganic)**

Selenium Speciation - Water (252)  
NA-TM-1002, NA-TP-2007, VA-TM-1084; Spectrochimica Acta Part B60 (2005) 633-641  
HPLC - ICP/MS  
Selenium (IV)  
Selenium (VI)  
SelenoMethionine

**Water (Inorganic)**

Solids - Water (016)  
NA-TM-1004, VA-TM-1009, VA-TM-1050; modified from SM 2540 B and SM 2540 C and SM 2540 D and SM 2540 E  
GRAVIMETRIC  
Fixed Suspended Solids  
Total Dissolved Solids  
Total Solids (TS)  
Total Suspended Solids  
Volatile Suspended Solids

**Water (Inorganic)**

Sulphide - Water (010)  
VA-TM-1020; modified from SM 4500-S2- D  
COLOR  
Sulphide

**Water (Inorganic)**

Thiocyanate - Water (014)  
VA-TM-1029; modified from SM 4500-CN- M  
COLOR  
Thiocyanate

**Water (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Water (211)  
VA-TM-1044; modified from SM 4500-NORG D  
AUTO FLUORESCENCE - DIGESTION  
Dissolved Kjeldahl Nitrogen  
Total Kjeldahl Nitrogen

**Water (Inorganic)**

Total Metals - Water (031)  
NA-TM-1002, NA-TP-2001, NA-TP-2007; modified from EPA 200.2 and EPA 6020B  
ICP/MS - DIGESTION  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth

† "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)



Boron  
Cadmium  
Calcium  
Cesium  
Chromium  
Cobalt  
Copper  
Gallium  
Gold  
Indium  
Iron  
Lanthanum  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Niobium  
Phosphorus  
Potassium  
Rhenium  
Rubidium  
Selenium  
Silicon  
Silver  
Sodium  
Strontium  
Sulphur (Sulfur)  
Tantalum  
Tellurium  
Thallium  
Thorium  
Tin  
Titanium  
Tungsten  
Uranium  
Vanadium  
Yttrium  
Zinc  
Zirconium

† “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 (041)

NA-TP-2001, VA-TM-1066, VA-TP-2072; modified from EPA 6010D and SM 3030 E  
ICP/OES - DIGESTION

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

**Water (Inorganic)**

Turbidity - Water (020)

VA-TM-1011; modified from SM 2130 B  
TURBIDIMETRIC

Turbidity

**Water (Inorganic)**

UV Absorbance and Transmittance - Water (254)

VA-TM-1042, VA-TP-2011; modified from SM 5910 B  
SPECTROPHOTOMETRIC

UV Absorbance

† "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)

UV Transmittance

**Water (Microbiology)**

Coliforms - Water (145)  
NA-TM-1300; modified from SM 9223 B  
MOST PROBABLE NUMBER (ENZYME SUBSTRATE)  
Escherichia coli  
Fecal (Thermotolerant) Coliforms  
Total Coliforms

**Water (Microbiology)**

Enterococci - Water (186)  
VA-TM-1203; modified from SM 9230 C  
MEMBRANE FILTRATION (mENTEROCOCCUS)  
Enterococci

**Water (Microbiology)**

Escherichia coli (E. coli) - Water (240)  
VA-TM-1201; modified from SM 9222 G  
MEMBRANE FILTRATION (mFC/NA-MUG)  
Escherichia coli

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (029)  
VA-TM-1200; modified from SM 9221 E  
MOST PROBABLE NUMBER  
Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (030)  
VA-TM-1201; modified from SM 9222 D  
MEMBRANE FILTRATION (mFC)  
Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Heterotrophic Plate Count (HPC) - Water (126)  
NA-TM-1301; modified from SM 9215 B  
POUR PLATE (PLATE COUNT AGAR)  
Heterotrophic Plate Count (HPC)

**Water (Microbiology)**

Pseudomonas aeruginosa - Water (187)  
VA-TM-1204; modified from SM 9213 E  
MEMBRANE FILTRATION (mPAC)  
Pseudomonas aeruginosa

**Water (Microbiology)**

Total Coliforms - Water (142)  
VA-TM-1200; modified from SM 9221 B  
MOST PROBABLE NUMBER  
Total Coliforms

**Water (Microbiology)**

Total Coliforms - Water (143)  
VA-TM-1201; modified from SM 9222 B  
MEMBRANE FILTRATION (mENDO)  
Total Coliforms

† "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 (251)  
NA-TM-1112, VA-TP-2127, VA-TP-2129; BC MOE LABORATORY MANUAL  
GC/FID - EXTRACTION  
EPH C10-C19 (sg)  
EPH C19-C32 (sg)  
Extractable Petroleum Hydrocarbons (EPH): C10-C19  
Extractable Petroleum Hydrocarbons (EPH): C19-C32  
Total Extractable Hydrocarbons (TEH): C10-C30

**Water (Organic)**

Glycols - Water (155)  
VA-TM-1113; modified from EPA 8015C  
GC/FID - EXTRACTION  
Diethylene glycol  
Ethylene glycol  
Propylene glycol  
Triethylene glycol

**Water (Organic)**

Petroleum Hydrocarbons (PHC) - Water (238)  
NA-TM-1112, NA-TP-2100; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1  
METHOD and EPA 3511  
GC/FID - EXTRACTION  
F2: C10-C16  
F3: C16-C34  
F4: C34-C50

**Water (Organic)**

Phenols - Water (059)  
VA-TM-1101, VA-TP-2113; modified from BC MOE LABORATORY MANUAL and EPA 3510C and EPA 8270D  
GC/MS - EXTRACTION  
2-Chlorophenol  
2-Methylphenol (o-Cresol)  
2,3-Dichlorophenol  
2,3,4-Trichlorophenol  
2,3,4,5-Tetrachlorophenol  
2,3,4,6-tetrachlorophenol  
2,3,5-Trichlorophenol  
2,3,5,6-Tetrachlorophenol  
2,3,6-Trichlorophenol  
2,4-Dichlorophenol  
2,4-Dimethylphenol  
2,4,5-Trichlorophenol  
2,4,6-trichlorophenol  
2,6-Dichlorophenol  
3-Chlorophenol  
3,4-Dichlorophenol  
3,4,5-Trichlorophenol

† "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)

3,5-Dichlorophenol  
4-Chloro-3-methylphenol  
4-Chlorophenol  
4-Methylphenol (p-Cresol)  
m-Cresol  
Pentachlorophenol  
Phenol

**Water (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Water (237)  
NA-TM-1112, VA-TP-2128; modified from EPA 3511 and EPA 8270D  
GC/MS - EXTRACTION

1-Methylnaphthalene  
2-Methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Acridine  
Anthracene  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b,j)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

**Water (Organic)**

Resin and Fatty Acids - Water (212)  
VA-TM-1105, VA-TP-2114; modified from EPA 3510C and EPA 8270D  
GC/MS/LIQUID-LIQUID EXTRACTION

12-Chlorodehydroabietic acid  
14-Chlorodehydroabietic acid  
Abietic acid  
Arachidic acid  
Behenic acid  
Dehydroabietic acid  
Dichlorodehydroabietic acid  
Dodecanoic acid (Lauric acid)  
Hexadecanoic acid (Palmitic acid)  
Isopimaric acid + Palustric acid

† "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)

Levopimaric acid  
Lignoceric acid  
Linoleic acid  
Linolenic acid (Octadecadienoic acid)  
Myristic acid (Tetradecanoic Acid)  
Neobietic acid  
Oleic acid  
Pimaric acid  
Sandaracopimaric acid  
Stearic acid (Octadecanoic acid)

**Water (Organic)**

Total Polychlorinated Biphenyls (PCB) - Water (115)

VA-TM-1115, VA-TP-2116; modified from EPA 3510C and EPA 3620C and EPA 3660B and EPA 3665A and EPA 8082A

GC/ECD - EXTRACTION

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Aroclor 1262

Aroclor 1268

Total PCB

**Water (Organic)**

Volatile Hydrocarbons (VH) - Water (197)

NA-TM-1102; modified from BC MOE LABORATORY MANUAL and CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 5021A

GC/FID - HEADSPACE

F1: C6-C10

Volatile Hydrocarbons (VH): C6-C10

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (196)

NA-TM-1102, NA-TP-2102; modified from EPA 5021A and EPA 8260C

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

1,2,4-Trimethylbenzene

† "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)

1,3-Dichlorobenzene  
1,3,5-Trimethylbenzene  
1,4-Dichlorobenzene  
4-isopropyltoluene (p-Cymene)  
Acetone (2-Propanone)  
Benzene  
Bromodichloromethane  
Bromoform  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane (Ethyl Chloride)  
Chloroform  
Chloromethane (Methyl chloride)  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Isopropylbenzene (Cumene)  
m,p-Xylene  
Methyl ethyl ketone  
Methyl isobutyl ketone (MIBK)  
Methyl t-butyl ether  
n-Propylbenzene  
Naphthalene  
o-Xylene  
Styrene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl chloride

† “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)