



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: December 12, 2018
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 - 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
Boron
Cadmium
Calcium
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

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

Air (Organic)

Volatile Organic Compounds (VOC) - Air (206)

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

GC/MS

1,1-Biphenyl

1,1-Dichloroethane

1,1-Dichloroethylene

1,1-Dichloropropylene

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

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

1,3-Butadiene

1,3-Dichlorobenzene

1,3-Dichloropropane

1,3,5-Trimethylbenzene

1,4-Dichlorobenzene

2-Butanone (Methyl ethyl ketone, MEK)

† "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

2-Chlorophenol
2-Chlorotoluene
2-Hexanone (MBK)
2-Propanol
2,2-Dichloropropane
4-Chlorotoluene
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropylene
Cyclohexane
Decane
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Dichloromethane (Methylene Chloride)
Ethyl acetate
Ethylbenzene
Hexachlorobutadiene
Isopropylbenzene
m,p-Xylene
Methyl t-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
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

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)

Dimethyl arsenic 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 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

PCB-1016

PCB-1221

PCB-1232

PCB-1262

PCB-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

† "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

Seawater (Inorganic)

Dissolved Metals - Water [Seawater] (118)

NA-TM-1002, NA-TP-2002, NA-TP-2007, VA-TM-1076; modified from EPA 200.8 and PUGET SOUND

PROTOCOLS

ICP/MS - EXTRACTION/FILTRATION

- Cadmium
- Cobalt
- Copper
- Iron
- Lead
- Manganese
- Nickel
- Uranium
- Zinc

Seawater (Inorganic)

Dissolved Metals - Water [Seawater] (204)

NA-TP-2002, VA-TM-1068, VA-TP-2074; modified from EPA 200.8 and SM 3030 B

HI RESOLUTION ICP/MS-Filtration

- Aluminum
- Antimony
- Arsenic
- Barium
- Beryllium
- Bismuth
- Boron
- Cadmium
- Calcium
- Cesium
- Chromium
- Cobalt
- Copper
- Gallium
- Iron
- Lead
- Lithium
- Magnesium
- Manganese
- Molybdenum
- Nickel
- Phosphorus
- Potassium
- Rhenium
- Rubidium
- Selenium
- Silicon
- Silver
- Sodium
- Strontium
- 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

Tungsten
Uranium
Vanadium
Yttrium
Zinc
Zirconium

Seawater (Inorganic)

Total Metals - Water [Seawater] (205)

NA-TP-2001, VA-TM-1068, VA-TP-2074; modified from EPA 200.8 and SM 3030 E
HI RESOLUTION ICP/MS-Digestion

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cesium
Chromium
Cobalt
Copper
Gallium
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Rhenium
Rubidium
Selenium
Silicon
Silver
Sodium
Strontium
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

Seawater (Inorganic)

Total Metals - Water [Seawater] (222)

NA-TM-1002, NA-TP-2001, NA-TP-2007, VA-TM-1076; modified from EPA 6020B and PUGET SOUND

PROTOCOLS

ICP/MS - EXTRACTION/DIGESTION

Cadmium

Cobalt

Copper

Iron

Lead

Manganese

Nickel

Uranium

Zinc

Soil (Inorganic)

Acidity - 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 - 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 - Leachates (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

Sulfate

Sulphate

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

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

† "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

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

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

† "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

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

Solids (Inorganic)

Flashpoint - Waste (264)

VA-TM-1090; modified from ASTM D93-15

PENSKE-MARTEN CLOSED CUP

Flashpoint

Solids (Inorganic)

Leachable Mercury - 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 - 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 - 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

† "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

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
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

† "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

Zinc
Zirconium

Solids (Inorganic)

Mercury - 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
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc
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

† "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

Sodium

Solids (Inorganic)

Methyl Mercury - Solids [Soil] (173)

VA-TM-1062; modified from EPA 1630

P&T - GC - CVAFS - EXTRACTION

Methylmercury

Solids (Inorganic)

Moisture - Solids [Soil] (089)

NA-TM-1200; modified from 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

Oil and Grease

Solids (Inorganic)

Paint Filter - Soil, Waste (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

SATURATION EXTRACTION

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

† "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

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

EPH C10-C19 (sq)

EPH C19-C32

EPH C19-C32 (sq)

Solids (Organic)

Glycols - Solids [Soil] (156)

VA-TM-1113; modified from EPA 8015B
GC/FID - EXTRACTION

1,2-Propylene glycol

Diethylene glycol

Ethylene glycol

Triethylene glycol

Solids (Organic)

Organochlorine (OC) Pesticides - Solids [Soil] (079)

VA-TM-1121, VA-TP-2117; modified from EPA 3540C and EPA 3630C and EPA 3660B and EPA 8081B
GC/ECD - EXTRACTION

2,4'-DDD

2,4'-DDE

2,4'-DDT (o,p'-DDT)

4,4'-DDD

4,4'-DDE

4,4'-DDT (p,p'-DDT)

Aldrin

alpha-BHC

beta-BHC

cis-Chlordane (alpha)

cis-Nonachlor

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan Sulfate

Endrin

gamma-BHC (Lindane)

Heptachlor

Heptachlor epoxide

Methoxychlor

Mirex

Oxychlordane

trans-Chlordane

trans-Nonachlor

† "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

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

2,3-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-methyl phenol

4-Chlorophenol

m-Cresol

o-Cresol

p-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

† "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

Benzo (b,i) 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)

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (203)
NA-TM-1105, NA-TP-2103; modified from EPA 3570 and EPA 8270D
GC/MS - EXTRACTION (SHORT COLD SHAKE)

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

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 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
PCB-1016
PCB-1221
PCB-1232
PCB-1262
PCB-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

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

Bromodichloromethane

Bromoform

Carbon tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroform

Ethylbenzene

m&p-xylenes

Methyl ethyl ketone

Methylene chloride

o-Xylene

Tetrachloroethylene

Toluene

Trichloroethylene

Vinyl chloride

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

1,3,5-Trimethylbenzene

1,4-Dichlorobenzene

4-Isopropylbenzene

Benzene

Bromodichloromethane

Bromoform

Carbon Tetrachloride

Chlorobenzene

† "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

Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Cumene (Isopropylbenzene)
Dichloromethane
Ethylbenzene
Ethylene Dibromide
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
Vinyl chloride

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

PCB-1016
PCB-1221
PCB-1232
PCB-1242
PCB-1248
PCB-1254
PCB-1260
PCB-1262
PCB-1268

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
Methylmercury

† "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

Tissue (Inorganic)

Moisture - Tissue (090)

VA-TM-1087; modified from PUGET SOUND PROTOCOLS

GRAVIMETRIC

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

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silver

Sodium

Strontium

Sulfur

Tellurium

Thallium

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

Uranium
Vanadium
Zinc
Zirconium

Tissue (Inorganic)

Total Metals - Tissue (200)

NA-TP-2006, VA-TM-1068, VA-TP-2074, VA-TP-2077; modified from EPA 200.3 and EPA 200.8

HI RESOLUTION ICP/MS - DIGESTION

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

Urine (Inorganic)

Creatinine - Biomaterials [Urine] (234)

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

Creatinine

† "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

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)
- Dimethylarsenic acid (DMA)
- Monomethyl arsenate (MMA)
- Total Arsenic Species
- Total Inorganic Arsenic
- Total Inorganic Arsenic and Methylated Metabolites

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
- Alkalinity-Phenolphthalein

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)
- Dimethylarsenic acid (DMA)
- Monomethyl arsenate (MMA)
- Total Arsenic Species
- Total Inorganic Arsenic

† "OSDWA" indicates the appendix is used for the analysis of Ontario drinking water samples, which is subject to the rules and related regulations under the Ontario "Safe Drinking Water Act" (2002).

The list of tests and measurement capabilities for which a laboratory is accredited can change at any time due to circumstances such as scope extensions, voluntary withdrawal of tests by the laboratory and suspension. Scopes are published by the CALA via the Internet at http://www.cala.ca/cala_directories.html

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)

CBOD (5 day)

Soluble Biological Oxygen Demand (BOD)

Water (Inorganic)

Carbon - Water (091)

VA-TM-1037; modified from SM 5310 B

IR - COMBUSTION

Inorganic Carbon

Organic Carbon

Total Carbon

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

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
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Rubidium
Selenium
Silicon
Silver
Sodium
Strontium
Sulfur
Tellurium
Thallium
Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium
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

† "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

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

Water (Inorganic)

Dissolved Metals - Water (198)

NA-TP-2002, VA-TM-1068, VA-TP-2074; modified from EPA 200.8 and SM 3030 B
HI RESOLUTION ICP/MS - FILTRATION

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cesium
Chromium
Cobalt
Copper
Gallium
Iron
Lanthanum
Lead
Lithium
Magnesium
Manganese
Molybdenum

† "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

Nickel
Niobium
Phosphorus
Potassium
Rhenium
Rubidium
Selenium
Silicon
Silver
Sodium
Strontium
Tantalum
Tellurium
Thallium
Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium
Yttrium
Zinc
Zirconium

Water (Inorganic)

Fluoride - Water (005)
VA-TM-1016; modified from SM 4500-F- C
SIE
Fluoride

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
Methylmercury

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

† "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

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

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
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

† "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

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
Boron
Cadmium
Calcium
Cesium
Chromium
Cobalt
Copper
Gallium
Gold
Indium
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Rubidium
Selenium
Silicon
Silver
Sodium
Strontium
Sulfur
Tellurium
Thallium
Thorium
Tin
Titanium
Tungsten
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

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
Silicon
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Vanadium
Zinc

Water (Inorganic)

Total Metals - Water (199)

NA-TP-2001, VA-TM-1068, VA-TP-2074; modified from EPA 200.8 and SM 3030 E

HI RESOLUTION ICP/MS - DIGESTION

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cesium
Chromium
Cobalt
Copper
Gallium

† "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

Iron
Lanthanum
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Niobium
Phosphorus
Potassium
Rhenium
Rubidium
Selenium
Silicon
Silver
Sodium
Strontium
Tantalum
Tellurium
Thallium
Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium
Yttrium
Zinc
Zirconium

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
UV Transmittance

Water (Microbiology)

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

Water (Microbiology)

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

† "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

Water (Microbiology)

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

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
EPH C10-C19 (sq)
EPH C19-C32
EPH C19-C32 (sq)
Total Extractable Hydrocarbons (TEH): C10-C30

Water (Organic)

Glycols - Water (155)
VA-TM-1113; modified from EPA 8015C
GC/FID - EXTRACTION
1,2-Propylene glycol
Diethylene glycol
Ethylene glycol
Triethylene glycol

† "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)

Organochlorine (OC) Pesticides - Water (065)

VA-TM-1121, VA-TP-2117; modified from EPA 3510C and EPA 3630C and EPA 3660B and EPA 8081B

GC/ECD - EXTRACTION

2,4'-DDD

2,4'-DDE

2,4'-DDT

4,4'-DDD

4,4'-DDE

4,4'-DDT

A -BHC

a - Chlordane

Aldrin

beta-BHC

cis-Nonachlor

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan Sulfate

Endrin

g - Chlordane

Heptachlor

Heptachlor Epoxide

Lindane (gamma-BHC)

Mirex

o,p' - DDT

Oxychlordane

p,p' - DDT

p,p' Methoxychlor

trans-Nonachlor

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

2,3-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

† "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

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-methyl phenol
4-Chlorophenol
m-Cresol
o-Cresol
p-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,i)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
Isopimaric and Palustric Acid
Lauric acid
Levopimaric acid
Lignoceric 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

Linoleic acid
Linolenic acid
Myristic acid
Neoabietic acid
Oleic acid
Palmitic acid
Pimaric acid
Sandaracopimaric acid
Stearic 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 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
PCB-1016
PCB-1221
PCB-1232
PCB-1262
PCB-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
1,3-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
4-Isopropyltoluene
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform

† "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

Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Cumene (Isopropylbenzene)
Dichloromethane
Ethylbenzene
Ethylene Dibromide
m/p-xylene
Methyl ethyl ketone
Methyl isobutyl ketone
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