



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 3152
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Standard: Conforms with requirements of ISO/IEC 17025:2017
Clients Served:
Revised On: October 13, 2021
Valid To: July 24, 2022

Scope of Accreditation

Soil (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (053)
CA-TM-005; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 55.3
HYDROMETER
Percent Clay
Percent Sand
Percent Silt

Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (055)
CE-TM-043; BC MOE LABORATORY MANUAL SECTION C and EPA 3060A and EPA 7196A
COLORIMETRIC - DIGESTION
Hexavalent Chromium

Solids (Inorganic)

Metals - Solids [Soil] (057)
CE-TM-051, CE-TM-052; modified from BC MOE LABORATORY MANUAL SECTION B and EPA 6010D and
SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1
ICP/OES - SATURATED PASTE
Boron
Calcium
Magnesium
Potassium
Sodium

† "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).

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Solids (Inorganic)

Metals - Solids [Soil] (058)

CE-TM-050, CE-TM-052; modified from BC MOE LABORATORY MANUAL SECTION C (ANALYSIS) and EPA 3050B (PREPARATION) and EPA 6010D (ANALYSIS)

ICP/OES

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Chromium

Cobalt

Copper

Lead

Magnesium

Mercury

Nickel

Selenium

Silver

Thallium

Tin

Uranium

Vanadium

Zinc

Solids (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (060)

CE-TM-047; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 55.4

SEIVE

Particle Size

Solids (Inorganic)

pH - Solids [Soil] (059)

CE-TM-044; SM 4500 B (ANALYSIS) and SM 4500 H+ (ANALYSIS) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER (PREPARATION)

ELECTROMETRIC

pH (1:2) soil:CaCl₂

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (062)

CE-TM-053; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 8015C

GC/FID

F2: C10-C16

F3: C16-C34

F4: C34-C50

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Solids (Organic)

Polyaromatic Hydrocarbons (PAH) - Solids [Soil] (061)

CE-TM-049; modified from EPA 3570 (PREPARATION) and EPA 8270E (ANALYSIS)

GC/MS

1-Methylnaphthalene

2-Chloronaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(b,j)fluoranthene

Benzo(g,h,i)perylene

Benzo(j)fluoranthene

Benzo(k)fluoranthene

Chrysene

Dibenzo(a,h)anthracene

Fluoranthene

Fluorene

Indeno(1,2,3 - cd)pyrene

Naphthalene

Phenanthrene

Pyrene

Quinoline

Solids (Organic)

Volatile Hydrocarbons (VH) - Solids [Soil] (064)

CE-TM-045; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID-PURGE AND TRAP - 1:2 CA₂ EXTRACTION

F1: C6-C10

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (065)

CE-TM-048; EPA 5030C (PREPARATION) and EPA 8260D (ANALYSIS)

GC/MS-PURGE AND TRAP

1,1-Dichloroethane

1,1-Dichloroethylene

1,1-Dichloropropene

1,1,1-Trichloroethane

1,1,1,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-Dichlorobenzene

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1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl chloride)
Chloroethene (Vinyl chloride)
Chloroform
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromomethane
Dichloromethane
Ethylbenzene
m,p-Xylene
Naphthalene
o-Xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane

Water (Inorganic)

Alkalinity - Water (001)
CE-TM-002; modified from SM 2320 B
TITRIMETRIC
Alkalinity (pH 4.5)

Water (Inorganic)

Ammonia - Water (022)
CE-TM-012; modified from SM 4500-NH3 D
ION SELECTIVE ELECTRODE (ISE)
Ammonia

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Water (Inorganic)

Anions - Water (002)

CE-TM-006; modified from SM 4110 B

ION CHROMATOGRAPHY (IC)

Bromide

Chlorate

Chloride

Chlorite

Fluoride

Nitrate

Nitrite

Sulfate

Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water (012)

CA-TM-003, CE-TM-041; SM 5210 B and SM 5210 C

DISSOLVED OXYGEN METER (DO)

BOD (5 day)

CBOD (5 day)

Ultimate Biochemical Oxygen Demand (BOD) (180 day)

Water (Inorganic)

Chemical Oxygen Demand (COD) - Water (052)

CA-TM-004; modified from SM 5220 D

COLORIMETRIC - DIGESTION

COD

Water (Inorganic)

Chlorine - Water (054)

CA-TM-002-00; SM 4500-CL- G

COLORIMETRIC

Free Chlorine

Total Chlorine

Water (Inorganic)

Colour - Water (051)

CE-TM-37-00; SM 2120 C

SPECTROPHOTOMETRIC

True Colour

Water (Inorganic)

Conductivity - Water (003)

CE-TM-003; modified from SM 2510 B

ION SELECTIVE ELECTRODE (ISE)

Conductivity (25°C)

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Water (Inorganic)

Fluoride - Water (044)

CE-TM-026; SM 4500-F- C

ION SELECTIVE ELECTRODE (ISE)

Fluoride

Water (Inorganic)

Metals - Water (066)

CE-TM-052, CE-TM-054; modified from EPA 6010D

ICP/OES

Calcium

Iron

Magnesium

Potassium

Sodium

Water (Inorganic)

pH - Water (021)

CE-TM-001; SM 4500-H+ B

pH METER

pH

Water (Inorganic)

Phosphate - Water (023)

CE-TM-011; modified from SM 4500-P E

COLORIMETRIC

Phosphate

Water (Inorganic)

Reactive Silica - Water (006)

CE-TM-020; modified from SM 4500-SIO2 C

COLORIMETRIC

Reactive Silica

Water (Inorganic)

Solids - Water (026)

CA-TM-006, CE-TM-022; modified from SM 2540 C and SM 2540 D and SM 2540 E

GRAVIMETRIC

Total Dissolved Solids

Total Suspended Solids

Volatile Suspended Solids

Water (Inorganic)

Sulphide - Water (028)

CE-TM-024; modified from SM 4500-S2- D

COLORIMETRIC

Sulphide

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Water (Inorganic)

Tannin and Lignin - Water (033)
CE-TM-030; modified from SM 5550 B
COLORIMETRIC
Tannin and Lignin

Water (Inorganic)

Total Phosphorus - Water (010)
CE-TM-011; SM 4500-P B and SM 4500-P E
COLORIMETRIC - DIGESTION
Total Dissolved Phosphorus
Total Phosphorus

Water (Inorganic)

Turbidity - Water (025)
CE-TM-032; SM 2130 B
NEPHELOMETRIC
Turbidity

Water (Microbiology)

Coliforms - Water (049)
CA-TM-009; modified from SM 9223
ENZYME SUBSTRATE - COLILERT
Escherichia coli (E. coli)
Fecal (Thermotolerant) Coliforms
Total Coliforms

Water (Microbiology)

Heterotrophic Plate Count (HPC) - Water (042)
CE-TM-010; SM 9215 A and SM 9215 B
POUR PLATE
Heterotrophic Plate Count (HPC)

Water (Toxicology)

Daphnia magna - Water (015)
CE-TM-028; EPS 1/RM/11 and EPS 1/RM/14
LETHALITY
Daphnia LC50 (48 h)
Daphnia Single Concentration (48h)

Water (Toxicology)

Rainbow Trout - Water (014)
CE-TM-027; EPS 1/RM/13 and EPS 1/RM/9
LETHALITY
Single Concentration (96h)
Trout LC50 (96 h)

Water (Toxicology)

Rainbow Trout [pH Stabilization] - Water (050)
CE-TM-035; EPS 1/RM/13 and EPS 1/RM/50
ACUTE LETHALITY (SURVIVAL)
Single Concentration (96h) - pH Stabilization

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Trout LC50 (96h) - pH Stabilization

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