



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 2644

**Laboratory Name:** Caduceon Environmental Laboratories (Ottawa)

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**Standard:** Conforms with requirements of ISO/IEC 17025:2017

**Clients Served:**

**Revised On:** July 27, 2021

**Valid To:** September 16, 2023

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### Scope of Accreditation

#### Air (Inorganic)

Metals - Air [Filter] (012)

D-ICP-02; modified from NIOSH 7303 and SM 3120 B

ICP - DIGESTION

Cadmium

Copper

Lead

Zinc

#### Air (Inorganic)

Total Suspended Particulates - Air [Filter, Particulate] (018)

A-TSP-01; modified from ON MECP E3288A

GRAVIMETRIC

Total Suspended Particulates

#### Dustfall

Dustfall - Dustfall (020)

A-DF-01; modified from ON MECP E3043

GRAVIMETRIC - FILTRATION

Insoluble Dustfall

Total Dustfall

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**Fluoride Candles**

Fluoride - Fluoride Candles (019)  
A-FISE-01; modified from ON MECP FSIE-1983D  
ION SELECTIVE ELECTRODE (ISE) - DIGESTION  
Fluoride

**Solids (Inorganic)**

Anions - Solids [Biosolid, Soil] (069)  
A-IC-01; modified from SM 4110 B  
ION CHROMATOGRAPHY (IC) - EXTRACTION  
Chloride  
Nitrate (NO<sub>3</sub>)  
Nitrite (NO<sub>2</sub>)  
Sulphate (Sulfate)

**Solids (Inorganic)**

Boron (Hot Water Soluble) - Solids [Soil] (098)  
D-ICP-02; ON MECP E3470  
ICP/OES - EXTRACTION  
Boron

**Solids (Inorganic)**

Conductivity - Solids [Sediment, Soil] (099)  
A-COND-03; modified from ON MECP E3530 and SM 2510 B  
CONDUCTIVITY METER - EXTRACTION  
Conductivity

**Solids (Inorganic)**

Extractable Anions - Solids (090)  
A-IC-01; modified from EPA 1311 (PREPARATION) and SM 4110 B (ANALYSIS)  
ION CHROMATOGRAPHY (IC) - TCLP  
Nitrate  
Nitrite (NO<sub>2</sub>)

**Solids (Inorganic)**

Extractable Metals - Solids (091)  
D-ICP-01, TCLP\_SPLP-001; modified from EPA 1311 (PREPARATION) and SM 3120 B (ANALYSIS)  
ICP/OES - TCLP  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Lead  
Nickel  
Silver  
Zinc

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**Solids (Inorganic)**

Extractable Metals - Solids (092)

D-ICPMS-01, TCLP\_SPLP-001; modified from EPA 1311 (PREPARATION) and EPA 200.8 (ANALYSIS)

ICP/MS - TCLP

Antimony

Arsenic

Selenium

Uranium

**Solids (Inorganic)**

Extractable Metals - Solids (093)

D-HG-02; modified from EPA 1311 (PREPARATION) and SM 3112 B (ANALYSIS)

COLD VAPOUR ATOMIC ABSORPTION (CVAA) - TCLP

Mercury

**Solids (Inorganic)**

Extractable Metals - Solids (109)

D-ICPMS-01, TCLP\_SPLP-001; EPA 200.8 (ANALYSIS) and ON MECP E9003 (PREPARATION)

ICP/MS - MSPLP

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Molybdenum

Nickel

Selenium

Silver

Thallium

Uranium

Vanadium

**Solids (Inorganic)**

Extractable Metals - Solids (110)

D-ICP-01, TCLP\_SPLP-001; ON MECP E9003 (PREPARATION) and SM 3120 B (ANALYSIS)

ICP/OES - SPLP

Barium

Beryllium

Boron

Cadmium

Chromium

Cobalt

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Copper  
Molybdenum  
Nickel  
Vanadium  
Zinc

**Solids (Inorganic)**

Flashpoint - Solids [Ash, Soil] (096)  
C-FPCC-01; modified from ASTM D93  
CLOSED CUP FLASH POINT TESTER  
Flashpoint

**Solids (Inorganic)**

Hexavalent Chromium - Solids [Soil] (094)  
D-CRVI-02; modified from EPA 3060A and EPA 7196A  
COLORIMETRIC  
Hexavalent Chromium

**Solids (Inorganic)**

Mercury - Solids [Biosolid, Soil] (017)  
D-HG-01; modified from EPA 7471A  
COLD VAPOUR ATOMIC ABSORPTION (CVAA) - DIGESTION  
Mercury

**Solids (Inorganic)**

Metals - Solids [Biosolid, Soil] (015)  
D-ICP-02; modified from EPA 6010  
ICP/OES - DIGESTION

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Potassium  
Silver

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Sodium  
Strontium  
Tin  
Titanium  
Tungsten  
Vanadium  
Zinc

**Solids (Inorganic)**

pH - Solids [Sediment, Sludge, Soil] (100)  
A-PH-03; modified from ON MECP E3530 and SM 4500-H+  
pH METER - EXTRACTION  
pH

**Solids (Inorganic)**

Total Metals - Solids [Biosolid, Soil] (070)  
D-ICPMS-01; modified from EPA 6020B  
ICP/MS - DIGESTION  
Antimony  
Arsenic  
Selenium  
Silver  
Thallium  
Uranium

**Water (Inorganic)**

Alkalinity - Water (088) OSDWA †  
A-ALK-03; modified from SM 2320 B  
AUTOMATED TITRIMETRIC  
Alkalinity (pH 4.5)

**Water (Inorganic)**

Anions - Water [Liquid Biosolid, Wastewater] (002) OSDWA †  
A-IC-01; modified from SM 4110 B  
ION CHROMATOGRAPHY (IC)  
Bromide  
Chloride  
Fluoride  
Nitrate  
Nitrite  
Sulfate

**Water (Inorganic)**

Carbon - Water (054) OSDWA †  
C-OC-01; modified from EPA 415.2 and SM 5310 C  
INFRARED SPECTROSCOPY (IR) - UV-PERSULPHATE OXIDATION  
Organic Carbon

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<b>Water (Inorganic)</b> Colour - Water (027) A-COL-01; modified from SM 2120 C SPECTROPHOTOMETRIC True Colour	OSDWA †
<b>Water (Inorganic)</b> Conductivity - Water (003) A-COND-01; modified from SM 2510 B CONDUCTIVITY METER Conductivity (25°C)	OSDWA †
<b>Water (Inorganic)</b> Conductivity - Water (087) A-COND-02; modified from SM 2510 B AUTOMATED CONDUCTIVITY METER Conductivity (25°C)	OSDWA †
<b>Water (Inorganic)</b> Dissolved and Extractable Metals - Water (004) D-ICP-01; modified from SM 3120 B ICP Aluminum Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Potassium Silicon Silver Sodium Strontium Tin Titanium	OSDWA †

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Tungsten  
Vanadium  
Yttrium  
Zinc  
Zirconium

**Water (Inorganic)**

Dissolved Metals - Water (049)  
D-ICPMS-01; modified from EPA 200.8

OSDWA †

ICP/MS  
Antimony  
Arsenic  
Barium  
Beryllium  
Cadmium  
Chromium  
Cobalt  
Copper  
Lead  
Molybdenum  
Selenium  
Silver  
Thallium  
Uranium  
Vanadium

**Water (Inorganic)**

Hexavalent Chromium - Water (095)  
D-CRVI-01; modified from ON MECP E3056

COLORIMETRIC  
Hexavalent Chromium

**Water (Inorganic)**

Mercury - Water [Wastewater] (025)  
D-HG-02; modified from SM 3112 B  
COLD VAPOUR ATOMIC ABSORPTION (CVAA) - DIGESTION

OSDWA †

Mercury

**Water (Inorganic)**

pH - Water (086)  
A-pH-02; modified from SM 4500-H+ B

OSDWA †

AUTOMATED PH METER  
pH

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**Water (Inorganic)**

pH - Water [Liquid Biosolid, Wastewater] (005)

A-pH-01; modified from SM 4500-H+

pH METER

pH

OSDWA †

**Water (Inorganic)**

Total Metals - Water [Liquid Biosolid, Wastewater] (067)

D-ICP-01; modified from SM 3120 B

ICP/OES - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Silver

Sodium

Strontium

Tin

Titanium

Tungsten

Vanadium

Yttrium

Zinc

Zirconium

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**Water (Inorganic)**

Total Metals - Water [Liquid Biosolid, Wastewater] (071)

D-ICPMS-01; modified from EPA 6020

ICP/MS - DIGESTION

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Molybdenum

Selenium

Silver

Vanadium

**Water (Inorganic)**

OSDWA †

Turbidity - Water (026)

A-TURB-01; modified from SM 2130 B

NEPHELOMETRIC

Turbidity

**Water (Microbiology)**

OSDWA †

Coliforms - Water (050)

B-ECTC-01; modified from ON MECP E3407

MEMBRANE FILTRATION (DC)

Background Counts

Escherichia coli

Total Coliforms

**Water (Microbiology)**

OSDWA †

Escherichia coli (E. coli) - Water (010)

B-MFEC-01; modified from ON MECP E3371

MEMBRANE FILTRATION (EC)

Escherichia coli

**Water (Microbiology)**

OSDWA †

Fecal (Thermotolerant) Coliforms - Water (065)

B-MFFC-01; modified from SM 9222 D

MEMBRANE FILTRATION (M-FC)

Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

OSDWA †

Heterotrophic Plate Count (HPC) - Water (021)

B-HPC-01; modified from SM 9215 C

SPREAD PLATE

Heterotrophic Plate Count (HPC)

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**Water (Microbiology)**

Total Coliforms - Water (066)

B-MFTC-01; modified from ON MECP E3371

MEMBRANE FILTRATION (M-ENDO)

Background Counts

Total Coliforms

OSDWA †

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