



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 2916
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Standard: Conforms with requirements of ISO/IEC 17025:2017
Clients Served:
Revised On: September 3, 2021
Valid To: June 21, 2023

Scope of Accreditation

Biosolids (Inorganic)

Ammonia - Biosolids (034)
2.4; modified from SKALAR and SM 4500-NH3 H
COLORIMETRIC
Ammonia (NH3) ((Parameter suspended on 9/3/2021))

Biosolids (Inorganic)

Ammonia - Biosolids (042)
2.2; modified from DIONEX
ION CHROMATOGRAPHY (IC)
Ammonia (NH3) ((Parameter suspended on 9/3/2021))

Biosolids (Inorganic)

Anions - Biosolids (035)
2.1; modified from SM 4110
ION CHROMATOGRAPHY (IC)
Bromide ((Parameter suspended on 9/3/2021))
Chloride ((Parameter suspended on 9/3/2021))
Fluoride ((Parameter suspended on 9/3/2021))
Nitrate (NO3) ((Parameter suspended on 9/3/2021))
Nitrite (NO2)
Sulphate (Sulfate) ((Parameter suspended on 9/3/2021))

† "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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Biosolids (Inorganic)

Metals - Biosolids [Soil] (024)

5.2; modified from ON MECP E3071 and SM 3030 F and SM 3120 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

Silver

Sodium

Strontium

Sulphur (Sulfur)

Tellurium

Thallium

Tin

Tungsten

Uranium

Vanadium

Zinc

Zirconium

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Biosolids (Inorganic)

Solids - Biosolids (020)

1.6; modified from SM 2540 B and SM 2540 E

GRAVIMETRIC

Total Solids (TS) ((Parameter suspended on 9/3/2021))

Volatile Solids (VS) ((Parameter suspended on 9/3/2021))

Biosolids (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Biosolids [Effluent, Sludge] (033)

2.10; modified from SKALAR, NMA and SM 4500-NORG D

COLORIMETRIC - DIGESTION

Total Kjeldahl Nitrogen (TKN) ((Parameter suspended on 9/3/2021))

Biosolids (Microbiology)

Escherichia coli (E. coli) - Biosolids (037)

4.1; modified from ON MECP E3371

MEMBRANE FILTRATION (mFC-BCIG)

Escherichia coli (E. coli) ((Parameter suspended on 9/3/2021))

Solids (Inorganic)

Mercury - Solids [Biosolid, Soil] (031)

5.4; modified from CETAC and SM 3112 B

COLD VAPOUR ATOMIC ABSORPTION (CVAA)

Mercury

Water (Inorganic)

OSDWA †

Alkalinity - Water [Liquid Biosolid, Wastewater] (041)

1.2; modified from SM 2320 B

AUTOMATED TITRIMETRIC

Alkalinity (pH 4.5)

Water (Inorganic)

OSDWA †

Ammonia - Water [Wastewater] (004)

2.4; modified from SM 4500-NH3 H

COLORIMETRIC

Ammonia

Water (Inorganic)

OSDWA †

Anions - Water [Wastewater] (018)

2.12; modified from SM 4110 B

ION CHROMATOGRAPHY (IC)

Bromide

Chloride

Fluoride

Nitrate

Nitrate plus Nitrite (NO3 + NO2) (calculation)

Nitrite

Phosphate

Sulfate

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Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water [Liquid Biosolid, Wastewater] (011)

3.1; modified from SM 5210 B

DISSOLVED OXYGEN METER (DO)

BOD (5 day)

CBOD (5 day)

Water (Inorganic)

OSDWA †

Carbon - Water [Wastewater] (025)

3.4; modified from SKALAR and SM 5310 C

AUTOMATED COLORIMETRIC

Organic Carbon

Water (Inorganic)

Cations - Water [Wastewater] (043)

2.1, 2.2; modified from DIONEX

ION CHROMATOGRAPHY (IC)

Ammonia

Water (Inorganic)

Chemical Oxygen Demand (COD) - Water [Liquid Biosolid, Wastewater] (017)

3.2; modified from SM 5220 D

COLORIMETRIC

COD

Water (Inorganic)

Chlorine - Water [Wastewater] (021)

2.9; modified from HACH 8370

COLORIMETRIC

Total Chlorine

Water (Inorganic)

OSDWA †

Conductivity - Water [Liquid Biosolid, Wastewater] (002)

1.4; modified from SM 2510 B

CONDUCTIVITY METER

Conductivity (25°C)

Water (Inorganic)

OSDWA †

Dissolved and Extractable Metals - Water (048)

5.5; modified from SM 3030 B and SM 3125 B

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

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Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silicon
Silver
Sodium
Strontium
Tellurium
Thallium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Dissolved and Extractable Metals - Water [Liquid Biosolid, Wastewater] (023)
5.2; modified from SM 3030 B and SM 3030 D and SM 3030 E and SM 3120 B

ICP/OES

Aluminum
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead

OSDWA †

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Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Silicon
Silver
Sodium
Strontium
Sulphur (Sulfur)
Tellurium
Thallium
Tin
Titanium
Total Hardness (calculation)
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Mercury - Water [Drinking, Effluent, Wastewater] (030)
5.4; modified from CETAC and SM 3112 B
COLD VAPOUR ATOMIC ABSORPTION (CVAA)
Mercury

OSDWA †

Water (Inorganic)

Nitrate plus Nitrite - Water [Wastewater] (003)
2.7; modified from SKALAR and SM 4500-NO3- F
COLORIMETRIC
Nitrate plus Nitrite

Water (Inorganic)

Nitrogen - Water [Wastewater] (008)
2.6; modified from SKALAR and SM 4500-N B
AUTOMATED COLORIMETRIC - DIGESTION
Nitrate plus Nitrite
Total Kjeldahl Nitrogen (TKN) (calculation)
Total Nitrogen

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Water (Inorganic)

Oil and Grease - Water [Liquid Biosolid, Wastewater] (016)
3.3; modified from SM 5520 D
GRAVIMETRIC - SOXHLET EXTRACTION
Total Oil and Grease

Water (Inorganic)

pH - Water [Liquid Biosolid, Wastewater] (039)
2.3; modified from SM 4500-H+ B
AUTOMATED PH METER
pH

OSDWA †

Water (Inorganic)

Solids - Water [Wastewater] (010)
1.5, 1.6; modified from SM 2540 B and SM 2540 C and SM 2540 D
GRAVIMETRIC
Total Dissolved Solids
Total Solids (TS)
Total Suspended Solids

OSDWA †

Water (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Water (047)
2.10; modified from SKALAR, NMA and SM 4500-NORG D
COLORIMETRIC-SEGMENTED FLOW ANALYSIS (SFA)
Total Kjeldahl Nitrogen

Water (Inorganic)

Total Metals - Water (049)
5.5; modified from SM 3030 E and SM 3125 B
ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese

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Nickel
Phosphorus
Potassium
Selenium
Silicon
Silver
Sodium
Strontium
Tellurium
Thallium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Total Metals - Water [Wastewater] (022)

5.2; modified from SM 3030 D and SM 3030 E and SM 3120 B

ICP/OES - DIGESTION

Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium

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Selenium
Silica
Silver
Sodium
Strontium
Sulphur (Sulfur)
Tellurium
Thallium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Total Phenols - Water [Wastewater] (038)
3.5; modified from SM 5530 A and SM 5530 D
AUTOMATED COLORIMETRIC
Total Phenolics

Water (Inorganic)

Total Phosphorus - Water (044)
2.13; modified from SKALAR TOTAL UV DIGESTION PHOSPHATE
AUTOMATED COLORIMETRIC
Total Phosphorus

OSDWA †

Water (Inorganic)

Total Phosphorus - Water [Liquid Biosolid, Wastewater] (009)
2.8; modified from SM 4500-P B and SM 4500-P E
COLORIMETRIC
Total Phosphorus

Water (Inorganic)

Turbidity - Water [Wastewater] (015)
1.1; modified from SM 2130 B
NEPHELOMETRIC
Turbidity

OSDWA †

Water (Microbiology)

Coliforms - Water (045)
4.2; modified from ON MECP E3407
MEMBRANE FILTRATION (DC)
Escherichia coli
Total Coliforms

OSDWA †

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Water (Microbiology)

Escherichia coli (E. coli) - Water [Wastewater] (014)

4.1; modified from ON MECP E3371

MEMBRANE FILTRATION (mFC-BCIG)

Escherichia coli

Water (Microbiology)

Heterotrophic Plate Count (HPC) - Water (046)

4.3; modified from SM 9215 A and SM 9215 D

MEMBRANE FILTRATION

Heterotrophic Plate Count (HPC)

OSDWA †

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