



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 1352  
**Laboratory Name:** ALS Environmental (Edmonton)  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** October 30, 2018  
**Valid To:** April 29, 2021

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### Scope of Accreditation

#### Air (Inorganic)

Dustfall - Air [Dustfall] (120)  
ED-TM-1030; modified from ALBERTA ENVIRONMENT 32020  
GRAVIMETRIC  
Dustfall, Fixed  
Dustfall, Total

#### Air (Inorganic)

Fluoride - Air (188)  
ED-TM-1028; modified from SM 4500-F- C  
SELECTIVE ION ELECTRODE  
Fluoride

#### Air (Inorganic)

Fluoride - Air [Filter] (219)  
ED-TM-1008, NA-TM-1001; modified from NIOSH 7906  
ION CHROMATOGRAPHY  
Hydrogen Fluoride (as F)

#### Air (Inorganic)

Mercury - Air [Filter] (190)  
ED-TP-2001, NA-TM-1005; modified from EPA 245.1 and NIOSH 6009  
COLD VAPOUR AA - DIGESTION  
Mercury

#### Air (Inorganic)

Metals - Air [Filter] (016)  
ED-TP-2001, NA-TM-1002; modified from EPA 6020A and NIOSH 7303  
ICP/MS - DIGESTION  
Aluminum

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Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Sulfur  
Thallium  
Tin  
Tungsten  
Uranium  
Vanadium  
Zinc  
Zirconium

**Air (Inorganic)**

Particulates - Air [Particulate] (223)  
ED-TM-1140; modified from NIOSH 0500 and NIOSH 0600  
GRAVIMETRIC  
Particulates

**Air (Inorganic)**

Total Solids - Air [Impinger] (205)  
ED-TM-1157; modified from EPA 5  
GRAVIMETRIC  
Total Solids

**Air (Organic)**

Formaldehyde - Air (221)  
ED-TM-1151; modified from EPA TO-11A and NIOSH 2016  
HPLC/UV - EXTRACTION  
Formaldehyde

**Air (Organic)**

Gas - Air [Compressed Breathing Air] (218)  
ED-TM-1144; modified from ASTM D1946 and CSA 180 and EPA 3C  
GC/TCD  
Nitrogen  
Oxygen

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**Air (Organic)**

Hydrocarbons - Air (217)

ED-TM-1142, ED-TM-1144; modified from CSA Z180 and EPA 18

GC/FID

Carbon dioxide

Carbon monoxide

Ethane

Methane

Total Volatile Hydrocarbons (TVH): C1-C16

**Air (Organic)**

Volatile Organic Compounds (VOC) - Air (216)

ED-TM-1142; modified from EPA 018 and EPA 25C

GC/FID

Benzene

Ethylbenzene

Non-methane organic carbons

Toluene

Xylenes

**Oil (Organic)**

Polychlorinated Biphenyls (PCB) - Oil (002)

ED-TM-1104, ED-TM-1116; modified from ASTM D4059 and EPA 8082

GC/ECD - EXTRACTION

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Aroclor 1262

Aroclor 1268

Total PCB

**Paint (Inorganic)**

Lead - Paint (153)

ED-TM-1021, NA-TP-2004; modified from EPA 200.2 and EPA 200.7

ICP - DIGESTION

Lead

**Soil (Inorganic)**

Ammonia - Solids [Soil] (225)

ED-TM-1024, ED-TP-2019; modified from EPA 350.1 and SM 4500-NH3 and SOIL SAMPLING &amp; METHODS OF ANALYSIS, CARTER 15.2.1

COLORIMETRIC - SATURATED PASTE

Ammonia

**Solids (Inorganic)**

Anions - Solids [Soil] (176)

ED-TP-2019, NA-TM-1001; modified from EPA 300.1 and SOIL SAMPLING &amp; METHODS OF ANALYSIS, CARTER 15.2.1

ION CHROMATOGRAPHY (IC) - SATURATED PASTE

Chloride

Nitrate

Nitrate-N

Nitrite

Sulphate

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**Solids (Inorganic)**

Asbestos - Solids [Bulk] (222)  
ED-TM-1152; modified from EPA 600/R-93/116 and NIOSH 9002  
POLARIZED LIGHT MICROSCOPY (PLM)  
Bulk Asbestos

**Solids (Inorganic)**

Barium - Solids [Soil] (172)  
ED-TM-1021, ED-TM-1055; modified from EPA 200.7 and SSSA PART 3, 1996, PG 202  
ICP - FUSION  
Barium

**Solids (Inorganic)**

Chloride - Solids [Saturated Paste, Soil] (168)  
ED-TM-1032, ED-TP-2019; modified from SM 4500-CL- E and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1  
COLORIMETRIC  
Chloride

**Solids (Inorganic)**

Conductivity - Solids [Soil] (156)  
ED-TM-1004, ED-TP-2019; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1 and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.3  
SATURATED PASTE, METER  
Conductivity

**Solids (Inorganic)**

Density - Solids [Soil] (170)  
ED-TM-1025; modified from ASTM D5057  
GRAVIMETRIC  
Density

**Solids (Inorganic)**

Extractable Barium - Solids [Soil] (182)  
ED-TM-1021, ED-TM-1051; modified from BARITE WASTE GUIDELINES  
ICP - EXTRACTION  
Barium

**Solids (Inorganic)**

Grain Size - Solids [Soil] (028)  
ED-TM-1014; modified from ASTM D422-63  
SIEVING  
PSA% >75um

**Solids (Inorganic)**

Hexavalent Chromium - Solids [Soil] (148)  
ED-TM-1023; modified from EPA 3060A  
IC-ALKALINE DIGESTION  
Chromium

**Solids (Inorganic)**

Hot Water Soluble Boron - Solids [Soil] (145)  
ED-TM-1021, ED-TM-1040; modified from KEREN 1996 METHODS OF SOIL ANALYSIS  
ICP - EXTRACTION  
Boron

**Solids (Inorganic)**

Mercury - Solids [Soil] (164)  
NA-TM-1005, NA-TP-2004; modified from EPA 200.2 and EPA 245.1  
COLD VAPOUR AA - DIGESTION  
Mercury

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**Solids (Inorganic)**

Metals - Solids [Soil] (023)

NA-TM-1002, NA-TP-2004; modified from EPA 200.2 and EPA 6020

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
- Sulfur
- Thallium
- Tin
- Titanium
- Tungsten
- Uranium
- Vanadium
- Zinc
- Zirconium

**Solids (Inorganic)**

Oil and Grease - Solids [Soil] (029)

ED-TM-1131; modified from SM 5520

GRAVIMETRIC - EXTRACTION

Oil and Grease

**Solids (Inorganic)**

Paint Filter - Solids [Paint, Soil] (231)

ED-TM-1042; EPA 9095A

FILTRATION

Paint Filter (Free Liquid)

**Solids (Inorganic)**

Particle Size Analysis (PSA) - Solids [Soil] (110)

ED-TM-1010; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 55.3

PARTICLE SIZE

% clay

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% Sand  
Silt

**Solids (Inorganic)**

Percent Moisture - Solids [Soil] (179)  
ED-TM-1200; modified from ASTM D2216-80  
GRAVIMETRIC  
Percent Moisture

**Solids (Inorganic)**

Percent Saturation - Solids [Soil] (169)  
ED-TP-2019; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1  
GRAVIMETRIC  
Percent Saturation

**Solids (Inorganic)**

pH - Solids [Soil] (099)  
ED-TM-1003, ED-TP-2019; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1 and  
SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 16.2  
SATURATED PASTE, METER  
pH

**Solids (Inorganic)**

pH - Solids [Soil] (100)  
ED-TM-1003; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 16.2  
EXTRACTION, METER  
pH (1:1)  
pH (1:2)

**Solids (Inorganic)**

pH - Solids [Soil] (163)  
ED-TM-1015; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 16.3  
1:2 CaCl<sub>2</sub> EXTRACTION - METER  
pH (1:2): CaCl<sub>2</sub>

**Solids (Inorganic)**

Salinity - Solids [Soil] (160)  
ED-TM-1021, ED-TP-2019; modified from EPA 200.7 and SOIL SAMPLING & METHODS OF ANALYSIS,  
CARTER 15.2.1  
ICP (SATURATED PASTE)  
Boron  
Calcium  
Magnesium  
Potassium  
Sodium  
Sulfur  
Sulphate

**Solids (Inorganic)**

Sulfate - Solids (173)  
ED-TM-1046, NA-TM-1001; modified from CSA A23.2  
IC - DIGESTION  
Sulfate

**Solids (Organic)**

Alkanolamines - Solids [Soil] (210)  
ED-TM-1155; modified from "QUANTITATIVE ANALYSIS OF AMINO ACIDS" T. NASHOLM, G. SANDLBERG, &  
A. ERICSSON. J. CHROMATOGRAM. 396:225-236 (1987)  
HPLC - EXTRACTION  
DEA (Diethanolamine)

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DIPA (Diisopropanolamine)  
MEA (Monoethanolamine)  
MIPA (Monoisopropanolamine)

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (154)

NA-TM-1102, NA-TP-2102; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 8260

GC/MS - HEADSPACE

Benzene  
Ethylbenzene  
m/p-xylene  
o-xylene  
Toluene

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (155)

NA-TM-1102, NA-TP-2102; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 5021 and EPA 8260

GC/FID - HEADSPACE

F1: C6-C10  
VH: C6-C10

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (158)

NA-TM-1100, NA-TP-2100; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID - EXTRACTION TUMBLER

F2: C10-C16  
F3: C16-C34  
F4: C34-C50

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (171)

NA-TM-1100, NA-TP-2100; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GRAVIMETRIC - TUMBLER

F4: Gravimetric

**Solids (Organic)**

Phenols - Solids [Soil] (077)

ED-TM-1113; modified from EPA 3540 and EPA 8270

GC/MS - EXTRACTION

2-Chlorophenol  
2-Methylphenol (o-Cresol)  
2-Nitrophenol  
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 + 2,5-Dichlorophenol  
2,4-Dimethylphenol  
2,4-Dinitrophenol  
2,4,5-Trichlorophenol  
2,4,6-Trichlorophenol  
2,6-Dichlorophenol  
3-Chlorophenol

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3-Methylphenol (m-Cresol)  
3,4-Dichlorophenol  
3,4,5-Trichlorophenol  
3,5-Dichlorophenol  
4-Chloro-3-methyl phenol  
4-Chlorophenol  
4-Methylphenol (p-Cresol)  
4-Nitrophenol  
4,6-Dinitro-2-methylphenol  
Pentachlorophenol  
Phenol

**Solids (Organic)**

Polychlorinated Biphenyls (PCB) - Solids [Soil] (097)  
ED-TM-1102, ED-TM-1116; modified from EPA 3550 and EPA 8082  
GC/ECD - EXTRACTION  
Aroclor 1016  
Aroclor 1221  
Aroclor 1232  
Aroclor 1242  
Aroclor 1248  
Aroclor 1254  
Aroclor 1260  
Aroclor 1262  
Aroclor 1268  
Total PCB

**Solids (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Solids (227)  
NA-TM-1105, NA-TP-2103; modified from EPA 3570 and EPA 8270  
GC/MS - EXTRACTION  
1-Methylnaphthalene  
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  
Perylene  
Phenanthrene  
Pyrene  
Quinoline

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## Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (167)

ED-TM-1111, NA-TM-1102, NA-TP-2102; modified from EPA 5021 and EPA 8260

GC/MS - HEADSPACE/EXTRACTION

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-Dibromo-3-chloropropane (DBCP)  
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-Dichlorobenzene  
1,3-Dichloropropane  
1,3,5-Trimethylbenzene  
1,4-dichlorobenzene  
2-Chlorotoluene  
2-Hexanone (MBK)  
2,2-Dichloropropane  
4-Chlorotoluene  
Acetone (2-Propanone)  
Acrylonitrile  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
cis-1,4-Dichloro-2-butene  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane  
Ethyl alcohol  
Ethyl methacrylate  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene

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Isopropylbenzene  
m/p-xylene  
Methyl Ethyl Ketone  
Methyl iodide  
Methyl isobutyl Ketone  
Methyl t-butyl ether  
n-Butylbenzene  
n-Propylbenzene  
o-xylene  
p-Isopropyltoluene  
sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
trans-1,4-Dichloro-2-butene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl chloride

**Swab (Inorganic)**

Mercury - Solids [Swab] (211)  
ED-TP-2004, NA-TM-1005; modified from EPA 245.1 and EPA 3050B  
COLD VAPOUR AA - DIGESTION  
Mercury

**Swab (Inorganic)**

Metals - Solids [Swab] (201)  
ED-TP-2004, NA-TM-1002; modified from EPA 200.2 and EPA 6020  
ICP/MS - EXTRACTION  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Tin  
Vanadium

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Zinc

**Swab (Organic)**

Polychlorinated Biphenyls (PCB) - Solids [Swab] (202)

ED-TM-1102, ED-TM-1116; modified from EPA 3550 and EPA 8082

GC/ECD - EXTRACTION

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Aroclor 1262

Aroclor 1268

Total PCB

**Waste (Inorganic)**

Flashpoint - Waste (055)

ED-TM-1012; modified from ASTM 93-D

PENSKE-MARTEN CLOSED CUP

Flashpoint

**Waste (Inorganic)**

Mercury - Waste (162)

NA-TM-1005, NA-TM-1700; modified from EPA 1311 (PREPARATION) and EPA 245.1 (ANALYSIS) and EPA 245.7 (ANALYSIS)

COLD VAPOUR AA - DIGESTION - TCLP

Mercury

**Waste (Inorganic)**

Metals - Waste (141)

NA-TM-1002, NA-TM-1700, NA-TP-2001; modified from EPA 1311 (PREPARATION) and EPA 6020 (ANALYSIS)

ICP/MS - TCLP

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Nickel

Selenium

Silver

Thallium

Uranium

Vanadium

Zinc

Zirconium

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**Waste (Inorganic)**

Specific Gravity - Waste (174)  
ED-TM-1025; modified from ASTM D5057  
GRAVIMETRIC  
Specific Gravity

**Waste (Organic)**

BTEX - Waste (135)  
ED-TP-2005, NA-TM-1102; modified from EPA 1311 (PREPARATION) and EPA 8260B (ANALYSIS)  
GC/MS - TCLP  
Benzene  
Ethylbenzene  
m,p-Xylene  
o-Xylene  
Toluene

**Water (Inorganic)**

Acidity - Water (206)  
ED-TM-1049; modified from SM 2310  
TITRATION  
Acidity

**Water (Inorganic)**

Acidity - Water (212)  
ED-TM-1049; modified from SM 2310  
TITRATION - POTENTIOMETRIC  
Acidity

**Water (Inorganic)**

Acidity - Water (229)  
ED-TM-1026; modified from SM 2310  
TITRIMETRIC  
Acidity

**Water (Inorganic)**

Alkalinity - Water (004)  
ED-TM-1026; modified from SM 2320 B  
TITRIMETRIC  
Alkalinity (pH 4.5)  
Alkalinity (pH 8.3)

**Water (Inorganic)**

Ammonia - Water (178)  
ED-TM-1016; modified from SM 4500-NH3  
COLORIMETRIC  
Ammonia

**Water (Inorganic)**

Ammonia - Water (213)  
ED-TM-1024; modified from EPA 350.1  
COLORIMETRIC  
Ammonia

**Water (Inorganic)**

Anions - Water (005)  
NA-TM-1001; modified from EPA 300.1  
ION CHROMATOGRAPHY  
Bromide  
Chloride  
Fluoride

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Nitrate  
Nitrite  
Sulfate

**Water (Inorganic)**

Biochemical Oxygen Demand (BOD) - Water (013)  
ED-TM-1007, ED-TM-1037; modified from SM 5210 B  
D.O. METER  
BOD (5 day)  
BODu (ultimate)  
CBOD (5 day)

**Water (Inorganic)**

Carbon - Water (118)  
ED-TM-1002; modified from SM 5310 B  
IR - COMBUSTION  
Inorganic Carbon  
Organic Carbon  
Total Carbon

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (051)  
ED-TM-1009; modified from SM 5220 D  
COLORIMETRIC - DIGESTION  
COD

**Water (Inorganic)**

Chlorine - Water (123)  
ED-TM-1036; modified from SM 4500-CL A and SM 4500-CL F and SM 4500-CL G  
COLORIMETRIC  
Free Chlorine  
Total Chlorine

**Water (Inorganic)**

Colour - Water (152)  
ED-TM-1038; modified from SM 2120 A and SM 2120 C  
SPECTROPHOTOMETRIC  
True Colour

**Water (Inorganic)**

Colour - Water (199)  
ED-TM-1052; modified from SM 2120 A and SM 2120 C  
COLORIMETRIC  
True Colour

**Water (Inorganic)**

Conductivity - Water (006)  
ED-TM-1026; modified from SM 2510 B  
CONDUCTIVITY METER  
Conductivity (25°C)

**Water (Inorganic)**

Dissolved Metals - Water (007)  
NA-TM-1002, NA-TP-2002; modified from EPA 6020  
ICP/MS  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium

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Bismuth  
Boron  
Cadmium  
Calcium  
Cesium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Rubidium  
Selenium  
Silicon  
Silver  
Sodium  
Strontium  
Sulphur  
Tellurium  
Thallium  
Thorium  
Tin  
Titanium  
Tungsten  
Uranium  
Vanadium  
Zinc  
Zirconium

**Water (Inorganic)**

Dissolved Oxygen - Water (214)  
ED-TM-1054; modified from SM 4500-O  
TITRATION  
Dissolved Oxygen

**Water (Inorganic)**

Hexavalent Chromium - Water (035)  
ED-TM-1023; modified from SM 3500-CR C  
ION CHROMATOGRAPHY  
Hexavalent Chromium

**Water (Inorganic)**

Mercury - Water (149)  
NA-TM-1005; modified from EPA 245.1 and EPA 245.7  
COLD VAPOUR AA, COLD OXIDATION  
Mercury

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**Water (Inorganic)**

Microtox - Water (161)  
NA-TM-1400; modified from AER D50  
BIOLUMINESCENCE  
Microtox IC50 (15 min)

**Water (Inorganic)**

Oil and Grease - Water (038)  
ED-TM-1132; modified from SM 5520 A and SM 5520 B and SM 5520 F  
GRAVIMETRIC  
Total Oil and Grease

**Water (Inorganic)**

Oil and Grease - Water (159)  
ED-TM-1133; modified from SM 5520 C and SM 5520 F  
INFRA-RED  
Hydrocarbon Oil and Grease  
Total Oil and Grease

**Water (Inorganic)**

pH - Water (015)  
ED-TM-1026; modified from SM 4500-H+ A and SM 4500-H+ B  
pH METER  
pH

**Water (Inorganic)**

Phosphate - Water (084)  
ED-TM-1031; modified from SM 4500-P  
COLORIMETRIC  
Phosphate

**Water (Inorganic)**

Phosphate - Water (183)  
ED-TM-1018; modified from SM 4500-P  
COLORIMETRIC - TECHNICON  
Phosphate

**Water (Inorganic)**

Phosphorus - Water (011)  
ED-TM-1031; modified from SM 4500-P B and SM 4500-P E  
COLORIMETRIC - DIGESTION  
Total Dissolved Phosphorus  
Total Phosphorus

**Water (Inorganic)**

Phosphorus - Water (119)  
ED-TM-1031, ED-TP-2006; modified from SM 4500 A and SM 4500 B and SM 4500 E  
COLORIMETRIC  
Inorganic Phosphorus

**Water (Inorganic)**

Phosphorus - Water (184)  
ED-TM-1018; modified from SM 4500-P B and SM 4500-P E  
COLORIMETRIC - TECHNICON  
Total Dissolved Phosphorus  
Total Phosphorus

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**Water (Inorganic)**

Phosphorus - Water (224)

ED-TM-1018; SM 4500-P

COLORIMETRIC - TECHNICON

Inorganic Phosphorus

**Water (Inorganic)**

Reactive Silica - Water (200)

ED-TM-1053; modified from SM 4500-SIO2 A and SM 4500-SIO2 E

COLORIMETRIC

Reactive Silica

**Water (Inorganic)**

Solids - Water (012)

ED-TM-1005; modified from SM 2540 A and SM 2540 B and SM 2540 C and SM 2540 D and SM 2540 E

GRAVIMETRIC

Fixed Suspended Solids

Total Dissolved Solids

Total Suspended Solids

Volatile Suspended Solids

**Water (Inorganic)**

Sulphide - Water (033)

ED-TM-1001; modified from SM 4500-S2- A and SM 4500-S2- D and SM 4500-S2- E

COLORIMETRIC

Sulphide

**Water (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Water (010)

ED-TM-1017, NA-TM-1006; modified from EPA 351.2

COLORIMETRIC - DIGESTION

Dissolved Kjeldahl Nitrogen

Total Kjeldahl Nitrogen

**Water (Inorganic)**

Total Metals - Water (082)

NA-TM-1002, NA-TP-2001; modified from EPA 6020 and SM 3030 E

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cesium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

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

**Water (Inorganic)**

Turbidity - Water (078)  
ED-TM-1011; modified from SM 2130 A and SM 2130 B  
TURBIDIMETRIC  
Turbidity

**Water (Inorganic)**

UV Absorbance and Transmittance - Water (230)  
ED-TM-1058; modified from SM 5910 B  
SPECTROPHOTOMETRIC  
UV Absorbance  
UV Transmittance

**Water (Microbiology)**

Coliforms - Water (196)  
NA-TM-1300; modified from SM 9223 B  
MOST PROBABLE NUMBER (QUANTI-TRAY)  
Escherichia coli (E. coli)  
Total Coliforms

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (197)  
NA-TM-1300; modified from SM 9223 B  
MOST PROBABLE NUMBER (QUANTI-TRAY)  
Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Heterotrophic Plate Count (HPC) - Water (198)  
NA-TM-1300; modified from SM 9215 E  
MOST PROBABLE NUMBER (QUANTI-TRAY)  
Heterotrophic Plate Count (HPC)

**Water (Organic)**

Alkanolamines - Water (209)  
ED-TM-1155; modified from "QUANTITATIVE ANALYSIS OF AMINO ACIDS" T. NASHOLM, G. SANDLBERG, & A. ERICSSON. J. CHROMATOGRAM. 396:225-236 (1987)  
HPLC - EXTRACTION  
DEA (Diethanolamine)  
DIPA (Diisopropanolamine)

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MEA (Monoethanolamine)  
MIPA (Monoisopropanolamine)

**Water (Organic)**

Base Neutral Extractables - Water (117)  
ED-TM-1124; modified from EPA 3510 and EPA 8270  
GC/MS - EXTRACTION  
1,2,3-Trichlorobenzene  
1,2,4-Trichlorobenzene  
2-Chloronaphthalene  
2,4-Dinitrotoluene  
2,6-Dinitrotoluene  
Hexachlorobenzene  
Hexachlorobutadiene  
Hexachlorocyclopentadiene  
Hexachloroethane  
Pentachlorobenzene

**Water (Organic)**

Petroleum Hydrocarbons (PHC) - Water (075)  
NA-TM-1112; modified from EPA 3511  
GC/FID - EXTRACTION  
F2: C10-C16  
F3: C16-C34  
F4: C34-C50  
Total Extractable Hydrocarbons (TEH): C11-C30

**Water (Organic)**

Petroleum Hydrocarbons (PHC) - Water (165)  
NA-TM-1102; modified from EPA 5021 and EPA 8260  
GC/FID - HEADSPACE  
F1: C6-C10  
Volatile Hydrocarbons (VH): C6-C10

**Water (Organic)**

Phenols - Water (076)  
ED-TM-1114; modified from EPA 3510 and EPA 8270  
GC/MS - EXTRACTION  
2-Chlorophenol  
2-Methylphenol (o-Cresol)  
2-Nitrophenol  
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 + 2,5-Dichlorophenol  
2,4-Dimethylphenol  
2,4-Dinitrophenol  
2,4,5-Trichlorophenol  
2,4,6-trichlorophenol  
2,6-Dichlorophenol  
3-Chlorophenol  
3-Methylphenol (m-Cresol)  
3,4-Dichlorophenol

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3,4,5-Trichlorophenol  
3,5-Dichlorophenol  
4-Chloro-3-methyl phenol  
4-Chlorophenol  
4-Methylphenol (p-Cresol)  
4-Nitrophenol  
4,6-Dinitro-2-methylphenol  
Pentachlorophenol  
Phenol

**Water (Organic)**

Phenols - Water (228)  
ED-TM-1057; modified from EPA 9066  
COLORIMETRIC  
Total Phenolics

**Water (Organic)**

Polyaromatic Hydrocarbons (PAH) - Water (226)  
NA-TM-1112, NA-TP-2019; modified from EPA 3511 and EPA 8270D  
GC/MS - MICROEXTRACTION  
1-Methylnaphthalene  
2-Methylnaphthalene  
Acridine  
Benzo(e)pyrene  
Perylene  
Quinoline

**Water (Organic)**

Resin and Fatty Acids - Water (020)  
ED-TM-1106; modified from ALBERTA ENVIRONMENT 129.0  
GC/MS - EXTRACTION  
12-Chlorodehydroabietic acid  
12,14-Dichlorodehydroabietic Acid  
14-Chlorodehydroabietic acid  
9,10-Dichlorostearic acid  
Abietic acid  
Arachidic acid  
Dehydroabietic acid  
Isopimaric acid  
Levopimaric acid  
Linoleic acid  
Linolenic acid  
Myristic acid  
Neoabietic acid  
Oleic acid  
Palmitic acid  
Palustric acid  
Pimaric acid  
Sandaracopimaric acid  
Stearic acid

**Water (Organic)**

Resin and Fatty Acids - Water (132)  
ED-TM-1106; modified from ALBERTA ENVIRONMENT 129.0  
GC/MS - EXTRACTION (RFA-Low ED)  
12-Chlorodehydroabietic acid  
12,14-Dichlorodehydroabietic Acid

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14-Chlorodehydroabietic acid  
9,10-Dichlorostearic acid  
Abietic acid  
Arachidic acid  
Dehydroabietic acid  
Isopimaric acid  
Levopimaric acid  
Linoleic acid  
Linolenic acid  
Myristic acid  
Neoabietic acid  
Oleic acid  
Palmitic acid  
Palustric acid  
Pimaric acid  
Sandaracopimaric acid  
Stearic acid

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (166)  
NA-TM-1102; modified from EPA 5021 and EPA 8260  
GC/MS - HEADSPACE

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-Dibromo-3-chloropropane (DBCP)  
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-Dichlorobenzene  
1,3-Dichloropropane  
1,3,5-Trimethylbenzene  
1,4-dichlorobenzene  
2-Chlorotoluene  
2-Hexanone (MBK)  
2,2-Dichloropropane  
4-Chlorotoluene  
Acetone (2-Propanone)  
Acrylonitrile  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide

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Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
cis-1,4-Dichloro-2-butene  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane  
Ethyl alcohol  
Ethyl methacrylate  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene  
Isopropylbenzene  
m/p-xylene  
Methyl Ethyl Ketone  
Methyl iodide  
Methyl isobutyl Ketone  
n-Butylbenzene  
n-Propylbenzene  
Naphthalene  
o-xylene  
p-Isopropyltoluene  
sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
trans-1,4-Dichloro-2-butene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl Chloride

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