



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 2472  
**Laboratory Name:** SRC Environmental Analytical Laboratories  
**Parent Institution:** Saskatchewan Research Council  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** July 21, 2020  
**Valid To:** September 3, 2022

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### Scope of Accreditation

#### Air (Inorganic)

Metals - Air [Filter] (171)

CHM-522, PRP-034; modified from EPA 29

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Manganese

Molybdenum

Nickel

Selenium

Strontium

Thallium

Tin

Titanium

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Uranium  
Vanadium  
Zinc

**Air (Organic)**

Volatile Organic Compounds (VOC) - Air (169)  
GLC-113; modified from EPA TO-15  
GC/MS - CRYOGENIC PRECONCENTRATION  
1,1-Dichloroethane  
1,1-Dichloroethene  
1,1,1-Trichloroethane  
1,1,2-Trichloro-1,2,2-Trifluoroethane (CFC113)  
1,1,2-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,2-Dibromoethane (Ethylene dibromide)  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloroethylene  
1,2-Dichloropropane  
1,2,4-Trichlorobenzene  
1,2,4-Trimethylbenzene  
1,3-Butadiene  
1,3-Dichlorobenzene  
1,3-Dichloropropene (E)  
1,3-Dichloropropene (Z)  
1,3,5-Trimethylbenzene  
1,4-Dichlorobenzene  
2-Butanone (Methyl ethyl ketone, MEK)  
2-Hexanone (Methyl butyl ketone, MBK)  
2-Propanol (Isopropyl alcohol)  
2,2,4-Trimethylpentane (Isooctane)  
4-Ethyltoluene (1-Ethyl-4-methylbenzene)  
Allyl chloride (3-chloropropene)  
Benzene  
Benzyl chloride (a-Chlorotoluene)  
Bromodichloromethane  
Bromoethene (Vinyl bromide)  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethene (Vinyl chloride)  
Chloroform  
Chloromethane (Methyl chloride)  
Cyclohexane

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Dichlorodifluoromethane  
Dichloromethane (Methylene Chloride)  
Dichlorotetrafluoroethane  
Ethyl acetate  
Ethyl chloride  
Ethylbenzene  
Heptane  
Hexachlorobutadiene  
Hexane  
m,p-Xylene  
Methyl isobutyl ketone (MIBK)  
Methyl tert-butyl ether (MTBE)  
o-Xylene  
Propene (Propylene)  
Styrene  
Tetrachloroethylene  
Tetrahydrofuran (THF)  
Toluene  
trans-1,2-Dichloroethylene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl acetate

**Air (Radiochemistry)**

Gross Alpha Activity and Gross Beta Activity - Air [Wipe] (170)

RAD-110; modified from SM 7110

GAS FLOW PROPORTIONAL COUNTING

Gross Alpha

Gross Beta

**Air (Radiochemistry)**

Radon - Air (103)

RAD-119; EPA 420-R-92-004

ALPHA TRACKS

Radon

**Animal Biological Tissue (Radiochemistry)**

Thorium Isotopes - Tissue [Biological] (141)

PRP-034, RAD-106; modified from SILL & WILLIAMS, ANALYTICAL CHEM, VOL 53, NO3, 1981

ALPHA SPECTROSCOPY

Thorium-228

Thorium-230

Thorium-232

**Biological Tissue (Inorganic)**

Metals - Tissue [Biological] (081)

CHM-522, PRP-034; modified from EPA 3052 and SM 3125

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

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Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Manganese  
Mercury  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Biological Tissue (Radiochemistry)**

Radium - Tissue [Biological] (082)  
PRP-034, RAD-105; modified from CANMET NUTP 3E  
ALPHA SPECTROSCOPY  
Radium-226

**Biological Tissues (Radiochemistry)**

Lead-210 - Tissue [Biological] (130)  
PRP-034, RAD-101; modified from CANMET REPORT 78-22  
GAS FLOW PROPORTIONAL COUNTING  
Lead-210

**Biological Tissues (Radiochemistry)**

Polonium-210 - Tissue [Biological] (128)  
PRP-034, RAD-103; modified from ASTM D7535 and CANMET REPORT 78-22  
ALPHA SPECTROSCOPY  
Polonium-210

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**Cannabis (Inorganic)**

Metals - Cannabis (176)

CHM-522, PRP-034; modified from EPA 3052 (PREPARATION) and SM 3125 (ANALYSIS)

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silver

Sodium

Strontium

Thallium

Tin

Titanium

Uranium

Vanadium

Zinc

**Cannabis (Inorganic)**

Metals - Cannabis [Cannabis Oil] (177)

CHM-522, PRP-034; modified from EPA 3052 (PREPARATION) and SM 3125 (ANALYSIS)

ICP/MS

Aluminum

Antimony

Barium

Beryllium

Bismuth

Boron

Cadmium

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

**Cannabis (Inorganic)**

Water Activity - Cannabis (186)  
CAN-006; modified from ASTM D8196  
TITRATION  
Water Activity

**Cannabis (Microbiology)**

Microbial Identification - Cannabis (192)  
CAN-007; modified from SENSSATIVAX PLANT/MICROBIAL DNA PROTOCOL  
DNA EXTRACTION, PCR ASSAY/GENE SEQUENCING AND ANALYSIS  
Bile tolerant gram-negative bacteria  
Escherichia coli (E. coli)  
Salmonella spp.  
Total Aerobic Bacteria  
Total Yeast and Mold

**Cannabis (Organic)**

Cannabinoids - Cannabis [Cannabis Oil] (202)  
CAN-004; IN-HOUSE  
LC-MS/MS  
Cannabichromene (CBC)  
Cannabichromenic acid (CBCA)  
Cannabidiol (CBD)  
Cannabidiolic acid (CBDA)  
Cannabidivarin (CBDV)

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Cannabigerol (CBG)  
Cannabigerolic acid (CBGA)  
Cannabinol (CBN)  
delta-8-Tetrahydrocannabinol (delta-8-THC)  
Tetrahydrocannabidivarinic acid (THCVA)  
Tetrahydrocannabinolic acid (THCA)  
Tetrahydrocannabinol (THC)  
Tetrahydrocannabivarin (THCV)

**Cannabis (Organic)**

Cannabinoids - Cannabis [Plants] (201)

CAN-004; IN-HOUSE

LC-MS/MS

Cannabichromene (CBC)  
Cannabichromenic acid (CBCA)  
Cannabidiol (CBD)  
Cannabidiolic acid (CBDA)  
Cannabidivarin (CBDV)  
Cannabidivarinic acid (CBDVA)  
Cannabigerol (CBG)  
Cannabigerolic acid (CBGA)  
Cannabinol (CBN)  
delta-8-Tetrahydrocannabinol (delta-8-THC)  
Tetrahydrocannabidivarinic acid (THCVA)  
Tetrahydrocannabinolic acid (THCA)  
Tetrahydrocannabinol (THC)  
Tetrahydrocannabivarin (THCV)

**Cannabis (Organic)**

Pesticides - Cannabis [Cannabis Oil] (195)

CAN-005; IN-HOUSE

GC/MS/MS

Cyfluthrin  
Endosulfan I (a-Endosulfan)  
Endosulfan II (b-Endosulfan)  
Etridiazole  
Fenthion  
Fenvalerate  
Methyl parathion  
Pentachloronitrobenzene (Quintozene)

**Cannabis (Organic)**

Pesticides - Cannabis [Cannabis Oil] (197)

CAN-005; IN-HOUSE

LC-MS/MS

Abamectin  
Acephate  
Acequinocyl

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Aldicarb  
Allethrin  
Azadirachtin  
Azoxyastrobin  
Benzovindiflupyr  
Bifenazate  
Bifenthrin  
Boscalid  
Buprofezin  
Carbaryl  
Carbofuran  
Chlorantraniliprole  
Chlorpyrifos  
Clofentezine  
Clothianidin  
Coumaphos  
Cyantraniliprole  
Cypermethrin  
Cyprodinil  
Daminozide  
Deltamethrin  
Diazinon  
Dichlorvos (DDVP)  
Dimethoate  
Dimethomorph  
Dinotefuran  
Dodemorph  
Endosulfan Sulfate  
Ethoprophos  
Etofenprox  
Etoxazole  
Fenoxycarb  
Fenpyroximate  
Fensulfothion  
Fipronil  
Flonicamid  
Fludioxonil  
Fluopyram  
Hexythiazox  
Imidacloprid  
Imizalil  
Iprodione  
Kinoprene (Enstar)  
Kresoxism-methyl

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Malathion  
Metalaxyl  
Methiocarb  
Methomyl  
Methoprene  
Mevinphos (Phosdrin)  
MGK-264  
Myclobutanil  
Naled (Dibrom)  
Novaluron  
Oxyaml  
Paclobutrazol  
Permethrin  
Phenothrin  
Phosmet (Imidan)  
Piperonyl butoxide  
Pirimicarb  
Prallethrin  
Propiconazole  
Propoxur (Baygon)  
Pyraclostrobin  
Pyradiben  
Pyrethrins  
Resmethrin  
Spinetoram  
Spinosad  
Spirodiclofen  
Spiromesifen  
Spirotetramat  
Spiroxamine  
Tebuconazole  
Tebufenozide  
Teflubenzuron  
Tetrachlorvinphos  
Tetramethrin  
Thiacloprid  
Thiamethoxam  
Thiophanate-methyl  
Trifloxystrobin

**Cannabis (Organic)**

Pesticides - Cannabis [Plants] (194)

CAN-005; IN-HOUSE

GC/MS/MS

Cyfluthrin

Endosulfan I (a-Endosulfan)

Endosulfan II (b-Endosulfan)

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Etridiazole  
Fenthion  
Fenvalerate  
Methyl parathion  
Pentachloronitrobenzene (Quintozene)

**Cannabis (Organic)**

Pesticides - Cannabis [Plants] (196)

CAN-005; IN-HOUSE

LC-MS/MS

Abamectin

Acephate

Acequinocyl

Acetamiprid

Aldicarb

Allethrin

Azadirachtin

Azoxystrobin

Benzovindiflupyr

Bifenazate

Bifenthrin

Boscalid

Buprofezin

Carbaryl

Carbofuran

Chlorantraniliprole

Chlorphenapyr

Chlorpyrifos

Clofentezine

Clothianidin

Coumaphos

Cyantraniliprole

Cypermethrin

Cyprodinil

Daminozide

Deltamethrin

Diazinon

Dichlorvos (DDVP)

Dimethoate

Dimethomorph

Dinotefuran

Dodemorph

Endosulfan Sulfate

Ethoprofos

Etofenprox

Etoxazole

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Fenoxycarb  
Fenpyroximate  
Fensulfothion  
Fipronil  
Flonicamid  
Fludioxonil  
Fluopyram  
Hexythiazox  
Imidacloprid  
Imizalil  
Iprodione  
Kinoprene (Enstar)  
Kresoxism-methyl  
Malathion  
Metalaxyl  
Methiocarb  
Methomyl  
Methoprene  
Mevinphos (Phosdrin)  
MGK-264  
Myclobutanil  
Naled (Dibrom)  
Novaluron  
Oxamyl  
Paclobutrazol  
Permethrin  
Phenothrin  
Phosmet (Imidan)  
Piperonyl butoxide  
Pirimicarb  
Prallethrin  
Propiconazole  
Propoxur (Baygon)  
Pyraclostrobin  
Pyradiben  
Pyrethrins  
Resmethrin  
Spinetoram  
Spinosad  
Spirodiclofen  
Spiromesifen  
Spirotetramat  
Spiroxamine  
Tebuconazole  
Tebufenozide

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Teflubenzuron  
Tetrachlorvinphos  
Tetramethrin  
Thiacloprid  
Thiamethoxam  
Thiophanate-methyl  
Trifloxystrobin

**Cannabis (Organic)**

Terpenes - Cannabis [Cannabis Oil] (199)

; IN-HOUSE  
GC/MS

4-isopropyltoluene (p-Cymene)  
(-)-alpha-Bisabolol  
alpha-Humulene  
alpha-Pinene  
alpha-Terpinene  
beta-Caryophyllene  
(-)-beta-Pinene  
Camphene  
d-Limonene  
delta-3-Carene  
gamma-Terpinene  
Geraniol  
Guaiol  
(-)-Isopulegol  
Linalool  
Myrcene  
Nerolidol  
Ocimene  
Terpineol  
Terpinolene

**Cannabis (Organic)**

Terpenes - Cannabis [Plants] (198)

CAN-002; IN-HOUSE  
GC/MS

4-isopropyltoluene (p-Cymene)  
(-)-alpha-Bisabolol  
alpha-Humulene  
alpha-Pinene  
alpha-Terpinene  
beta-Caryophyllene  
beta-Myrcene  
(-)-beta-Pinene  
Camphene  
d-Limonene  
delta-3-Carene

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gamma-Terpinene  
Geraniol  
Guaiol  
(-)-Isopulegol  
Linalool  
Nerolidol  
Ocimene  
Terpineol  
Terpinolene

**Food Oil (Inorganic)**

Metals - Food [Food Oil, Oil] (117)

CHM-522, PRP-034; modified from EPA 3052 and SM 3125

ICP/MS - DIGESTION

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Manganese  
Mercury  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

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**Fuel (Inorganic)**

Anions - Fuel [Fuel Ethanol] (096)  
CHM-133, CHM-134; modified from ASTM D7319  
ION CHROMATOGRAPHY  
Inorganic Chloride  
Sulphate (Sulfate)

**Fuel (Inorganic)**

Conductivity - Fuel [Fuel Ethanol] (137)  
CHM-987; ASTM D1125  
CONDUCTIVITY METER  
Conductivity

**Fuel (Inorganic)**

Copper - Fuel [Fuel Ethanol] (102)  
CHM-1000, CHM-517; modified from ASTM 1688 METHOD A  
ICP/OES  
Copper

**Fuel (Inorganic)**

Density - Fuel [Fuel Ethanol] (101)  
GLC-292; ASTM D4052  
DENSITY METER  
Density

**Fuel (Inorganic)**

Iron Corrosion - Fuel [Fuel Ethanol] (138)  
CHM-985; ASTM D7548  
OBSERVATION  
Iron Corrosion

**Fuel (Inorganic)**

pHe - Fuel [Fuel Ethanol] (095)  
CHM-317; ASTM 6423  
pH METER  
pHe

**Fuel (Inorganic)**

Phosphorus - Fuel [Fuel Ethanol] (139)  
CHM-986; modified from ASTM D3231  
COLORIMETRIC  
Phosphorus

**Fuel (Inorganic)**

Solvent Washed Gum Content - Fuel [Fuel Ethanol] (098)  
GLC-291; modified from ASTM D381  
GRAVIMETRIC  
Solvent washed gum content

**Fuel (Inorganic)**

Total Acidity - Fuel [Fuel Ethanol] (094)  
CHM-319; ASTM D1613  
TITRATION  
Total Acidity

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**Fuel (Inorganic)**

Total Sulphur - Fuel [Fuel Ethanol] (097)  
RAD-180; modified from ASTM D5453  
UV-FLUORESCENCE  
Total Sulphur (Total Sulfur)

**Fuel (Inorganic)**

Water Content - Fuel [Fuel Ethanol] (100)  
GLC-EQ-220; modified from ASTM E1064  
KARL FISCHER  
Water Content

**Fuel (Organic)**

Components in Fuel Ethanol - Fuel (099)  
GLC-290; modified from ASTM D5501 and CGSB3.0 NO 14.3  
GC/FID  
Aromatics  
Benzene  
Denaturants  
Ethanol  
Methanol

**Oil (Inorganic)**

Water Content - Oil (131)  
GLC-052; modified from ASTM D95  
DEAN STARK  
Water Content

**Oil (Organic)**

Total Organic Halogens - Oil (184)  
RAD-113; modified from ASTM D5808  
MICROCOULIMETRY  
Total Organic Halogens (TOX)

**Oil (Organic)**

Total Polychlorinated Biphenyls (PCB) - Oil (033)  
GLC-133; modified from ASTM D4059  
GC/ECD - EXTRACTION  
Total PCB

**Solids (Inorganic)**

Chloride - Solids [Soil] (121)  
CHM-133, CHM-620; modified from SM 4110 B and SOIL SAMPLING & METHODS OF ANALYSIS  
ION CHROMATOGRAPHY  
Chloride

**Solids (Inorganic)**

Mercury - Solids [Soil] (157)  
CHM-309, CHM-PRP-024; EPA 1311 and EPA 1631  
TCLP LEACH/CVAF  
Mercury

**Solids (Inorganic)**

Mercury - Solids [Soil] (164)  
CHM-311, CHM-313; EPA 7473  
COMBUSTION AND ATOMIC ABSORPTION  
Mercury

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**Solids (Inorganic)**

Metals - Solids [Sediment, Soil] (079)

CHM-504, CHM-522, PRP-034; modified from EPA 3052 and SM 3125

ICP/MS - DIGESTION

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

**Solids (Inorganic)**

Metals - Solids [Soil] (159)

CHM-522, CHM-PRP-024; EPA 1311 and SM 3125

ICP/MS - TCLP LEACH

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium

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Chromium  
Cobalt  
Copper  
Iron  
Lead  
Manganese  
Molybdenum  
Nickel  
Selenium  
Silver  
Strontium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Solids (Inorganic)**

Particle Size Distribution - Solids [Sediment, Soil] (124)  
CHM-1200; modified from ASTM C1070  
LASER DIFFRACTION  
Particle Size Characterization

**Solids (Inorganic)**

Resistivity - Solids [Soil] (180)  
PRP-022; ASTM G57  
ELECTRODE  
Resistivity

**Solids (Inorganic)**

Sulphate - Solids [Soil] (053)  
CHM-517, CHM-624; modified from MEND REPORT 1.20.1 and SM 3120  
ICP/OES - DIGESTION  
Sulphate (Sulfate)

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (077)  
GLC-186; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GC/FID - EXTRACTION  
F2: C10-C16  
F3: C16-C34  
F4: C34-C50

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (084)  
GLC-186; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GRAVIMETRIC  
F4: Gravimetric

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**Solids (Organic)**

Total Polychlorinated Biphenyls (PCB) - Solids [Soil] (058)  
GLC-135; modified from EPA 3545A and EPA 8082A  
GC/ECD - EXTRACTION  
Total PCB

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Solids [Soil] (167)  
GLC-186; modified from EPA 5021A and EPA 8260C  
GC/MS - HEADSPACE  
Benzene  
Ethylbenzene  
F1: C6-C10  
m,p-Xylene  
o-Xylene  
Toluene

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Solids [Soil] (174)  
GLC-PRP-024; EPA 1311 (PREPARATION)  
GC/MS - HEADSPACE - TCLP  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,4-Dichlorobenzene  
Benzene  
Carbon tetrachloride  
Chlorobenzene  
Chloroform  
Dichloromethane  
Tetrachloroethylene  
Trichloroethylene

**Solids (Radiochemistry)**

Lead-210 - Solids [Soil] (073)  
PRP-034, RAD-101; modified from ASTM D7535 and CANMET REPORT 78-22  
GAS FLOW PROPORTIONAL COUNTING  
Lead-210

**Solids (Radiochemistry)**

Polonium-210 - Solids [Soil] (074)  
PRP-034, RAD-103; modified from ASTM D7535 and CANMET REPORT 78-22  
ALPHA SPECTROSCOPY  
Polonium-210

**Solids (Radiochemistry)**

Radionuclides - Solids [Soil] (071)  
RAD-300; SM 7120 B  
GAMMA SPECTROSCOPY  
Actinium-228  
Americium-241  
Bismuth-212  
Bismuth-214  
Cesium-134

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Cesium-137  
Iodine-131  
Lead-210  
Lead-211  
Lead-212  
Lead-214  
Manganese-54  
Potassium-40  
Radium-226  
Radium-228  
Thallium-208  
Thorium-227  
Thorium-230  
Thorium-234  
Uranium-235  
Zinc-65

**Solids (Radiochemistry)**

Radium Isotopes - Solids [Soil] (075)  
RAD-105; modified from CANMET NUTP-3E  
ALPHA SPECTROSCOPY  
Radium-226

**Solids (Radiochemistry)**

Radium-228 - Solids [Soil] (133)  
RAD-114; modified from EICHROM METHOD RAW01VBS and EICHROM METHOD SPA-01  
GAS FLOW PROPORTIONAL COUNTING  
Radium-228

**Solids (Radiochemistry)**

Strontium-90 - Solids (160)  
PRP-034, RAD-112; modified from EPA D5811  
MICROWAVE/SOLID PHASE EXTRACTION/BETA COUNTING  
Strontium-90

**Solids (Radiochemistry)**

Thorium Isotopes - Solids [Soil] (072)  
PRP-034, RAD-106; modified from SILL & WILLIAMS, ANALYTICAL CHEM, VOL 53, NO3, 1981  
ALPHA SPECTROSCOPY  
Thorium-228  
Thorium-230  
Thorium-232

**Swab (Organic)**

Polychlorinated Biphenyls (PCB) - Solids [Swab] (168)  
GLC-140; modified from ASTM D4059  
GC/ECD - EXTRACTION  
Total PCB

**Vegetation (Inorganic)**

Metals - Tissue [Vegetation] (080)  
CHM-522, PRP-034; modified from EPA 3052 and SM 3125  
ICP/MS - DIGESTION  
Aluminum

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Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Manganese  
Mercury  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Vegetation (Radiochemistry)**

Lead-210 - Tissue [Vegetation] (129)

PRP-034, RAD-101; modified from ASTM D7535 and CANMET REPORT 78-22  
GAS FLOW PROPORTIONAL COUNTING

Lead-210

**Vegetation (Radiochemistry)**

Polonium-210 - Tissue [Vegetation] (127)

RAD-103; modified from ASTM D7535 and CANMET REPORT 78-22  
ALPHA SPECTROSCOPY

Polonium-210

**Vegetation (Radiochemistry)**

Radionuclides - Tissue [Vegetation] (126)

RAD-300; SM 7120 B  
GAMMA SPECTROSCOPY

Actinium-228

Americium-241

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Cesium-134  
Cesium-137  
Iodine-131  
Lead-210  
Lead-212  
Lead-214  
Manganese-54  
Potassium-40  
Radium-226  
Ruthenium-103  
Thorium-230  
Thorium-234  
Zinc-65

**Vegetation (Radiochemistry)**

Radium Isotopes - Tissue [Vegetation] (125)  
PRP-034, RAD-105; modified from CANMET NUTP-3E  
ALPHA SPECTROSCOPY  
Radium-226

**Vegetation (Radiochemistry)**

Thorium Isotopes - Tissue [Vegetation] (140)  
PRP-034, RAD-106; modified from SILL & WILLIAMS, ANALYTICAL CHEM, VOL 53, NO3, 1981  
ALPHA SPECTROSCOPY  
Thorium-228  
Thorium-230  
Thorium-232

**Waste (Inorganic)**

Flashpoint - Waste (155)  
CHM-790; modified from ASTM D93  
PENSKY-MARTENS CLOSED CUP  
Flashpoint

**Water (Inorganic)**

Alkalinity - Water (001)  
CHM-211, CHM-404; modified from SM 2320  
TITRIMETRIC  
Alkalinity (pH 4.5)  
Bicarbonate (calculation)  
Carbonate (calculation)  
Hydroxide (calculation)  
Inorganic Carbon (calculation)  
Phenolphthalein Alkalinity

**Water (Inorganic)**

Ammonia - Water (088)  
CHM-123; modified from EPA 351.2  
COLORIMETRIC - DISCRETE  
Ammonia

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**Water (Inorganic)**

Anionic Surfactants - Water (119)  
CHM-312; modified from SM 5540 C  
COLORIMETRIC  
Methylene blue active substances (MBAS)

**Water (Inorganic)**

Anions - Water (002)  
CHM-133, CHM-134; modified from SM 4110 B  
ION CHROMATOGRAPHY  
Chloride  
Sulfate

**Water (Inorganic)**

Biochemical Oxygen Demand (BOD) - Water (011)  
CHM-400; modified from SM 5210 B  
D.O. METER  
BOD (5 day)  
CBOD (5 day)

**Water (Inorganic)**

Carbon - Water (049)  
CHM-399; modified from SM 5310 C  
UV/PERSULPHATE  
Organic Carbon  
Total Carbon (calculation)

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (048)  
CHM-402; modified from SM 5220 D  
COLORIMETRIC  
COD

**Water (Inorganic)**

Chlorate and Chlorite and Bromate - Water (111)  
CHM-133, CHM-134; modified from SM 4110 D  
ION CHROMATOGRAPHY  
Bromate  
Chlorate  
Chlorite

**Water (Inorganic)**

Chloride - Water (018)  
CHM-115; modified from SM 4500-CL- E  
COLORIMETRIC  
Chloride

**Water (Inorganic)**

Chlorine and Chlorination Byproducts - Water (118)  
CHM-340; modified from SM 4500-CL G  
COLORIMETRIC  
Dichloramine  
Free Chlorine  
Monochloramine  
Total Chlorine

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**Water (Inorganic)**

Colour - Water (162)  
CHM-220; SM 2120 C  
SPECTROPHOTOMETRIC  
True Colour

**Water (Inorganic)**

Conductivity - Water (003)  
CHM-211; modified from SM 2510  
CONDUCTIVITY METER  
Conductivity (25°C)

**Water (Inorganic)**

Cyanide - Water (173)  
CHM-350; ISO 14403-2  
CONTINUOUS FLOW  
Cyanide (SAD)  
Cyanide (WAD)  
Total Cyanide

**Water (Inorganic)**

Dissolved Cations - Water (020)  
CHM-501, CHM-507, CHM-508; modified from SM 3030 and SM 3120  
ICP/OES  
Calcium  
Hardness (calculation)  
Magnesium  
Potassium  
Sodium  
Sulphur (Sulfur)

**Water (Inorganic)**

Dissolved Metals - Water (008)  
CHM-501, CHM-517; modified from SM 3030 and SM 3120  
ICP/OES  
Aluminum  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Manganese  
Molybdenum  
Nickel  
Silver  
Strontium  
Titanium

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Vanadium

Zinc

**Water (Inorganic)**

Dissolved Metals - Water (076)

CHM-501, CHM-522; modified from SM 3030 and SM 3125

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Cerium

Chromium

Cobalt

Copper

Dysprosium

Erbium

Europium

Gadolinium

Holmium

Iron

Lanthanum

Lead

Lithium

Lutetium

Manganese

Molybdenum

Neodymium

Nickel

Phosphorus

Praseodymium

Samarium

Scandium

Selenium

Silver

Strontium

Terbium

Thallium

Thorium

Thorium-230

Thulium

Tin

Titanium

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Uranium  
Vanadium  
Ytterbium  
Yttrium  
Zinc

**Water (Inorganic)**

Fluoride - Water (005)  
CHM-211; SM 4500-F- C  
SELECTIVE ION ELECTRODE  
Fluoride

**Water (Inorganic)**

Mercury - Water (123)  
CHM-309; modified from EPA 1631  
COLD VAPOUR ATOMIC FLUORESCENCE - DIGESTION  
Mercury

**Water (Inorganic)**

Nitrate - Water (089)  
CHM-124; modified from EPA 353.2  
COLORIMETRIC - DISCRETE  
Nitrate plus Nitrite  
Nitrite

**Water (Inorganic)**

Nitrioltriacetic Acid (NTA) - Water (085)  
CHM-320; EPA 430.1  
COLORIMETRIC  
Nitrioltriacetic Acid (NTA)

**Water (Inorganic)**

Oil and Grease - Water (054)  
CHM-610; modified from EPA 1664B  
GRAVIMETRIC  
Mineral Oil and Grease  
Total Oil and Grease

**Water (Inorganic)**

pH - Water (004)  
CHM-211; modified from SM 4500-H+  
pH METER  
pH

**Water (Inorganic)**

Phenols - Water (064)  
CHM-304; modified from EPA 420.4  
COLORIMETRIC  
Total Phenolics

**Water (Inorganic)**

Phosphate - Water (009)  
CHM-116; modified from SM 4500-P F  
COLOR  
Inorganic Phosphate  
Organic Phosphate (calculation)  
Phosphate

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**Water (Inorganic)**

Solids - Water (012)

CHM-203, CHM-206; modified from SM 2540 C and SM 2540 D

GRAVIMETRIC

Total Dissolved Solids

Total Solids (TS) (calculation)

Total Suspended Solids

**Water (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Water (110)

CHM-111, CHM-128, PRP-128; modified from EPA 351.2 and SM 4500-N A

COLOR - DIGESTION - SEAL

Total Kjeldahl Nitrogen

Total Nitrogen (Calculation)

**Water (Inorganic)**

Total Metals - Water (092)

CHM-501, CHM-522; modified from EPA 200.8 and SM 3125

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Manganese

Molybdenum

Nickel

Selenium

Silver

Strontium

Thallium

Thorium-230

Titanium

Total Phosphorus

Uranium

Vanadium

Zinc

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**Water (Inorganic)**

Turbidity - Water (065)  
CHM-316; SM 2130 B  
TURBIDIMETRIC  
Turbidity

**Water (Microbiology)**

Coliforms - Water (013)  
CHM-410; modified from SM 9223  
CHROM. SUBSTRATE - COLILERT TEST KIT  
Escherichia coli  
Total Coliforms

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (120)  
CHM-407; COLILERT-18 FECAL COLIFORM PROTOCOL ADDENDUM  
CHROM. SUBSTRATE - COLILERT TEST KIT  
Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Heterotrophic Plate Count (HPC) - Water (066)  
CHM-412; SM 9215 E  
MOST PROBABLE NUMBER (MPN) (SIMPLATE)  
Heterotrophic Plate Count (HPC)

**Water (Organic)**

Chlorophenols - Water (142)  
GLC-150; modified from EPA 3510C and EPA 8041A  
GC/MSD - EXTRACTION  
2,3,4,6-Tetrachlorophenol  
2,4-Dichlorophenol  
2,4,6-Trichlorophenol  
Pentachlorophenol

**Water (Organic)**

Extractable Organic Halides - Water (183)  
RAD-117; modified from ASTM D5808  
MICROCOULIMETRY  
Extractable Organic Halides

**Water (Organic)**

Formation Potential (Haloacetic Acids) - Water (107)  
GLC-122, GLC-351; modified from JOURNAL OF CHROMATOGRAPHY A, 1217 (2010) 4873-4876 and SM 5710  
B  
CHLORINE INCUBATION and LC-MS/MS  
Bromochloroacetic acid  
Dibromoacetic acid  
Dichloroacetic acid (DCAA)  
HAA-5 (calculation)  
Monobromoacetic acid  
Monochloroacetic acid (MCAA)  
Total Haloacetic acids (HAA) (calculation)  
Trichloroacetic acid

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**Water (Organic)**

Formation Potential (Trihalomethanes) - Water (135)

GLC-119, GLC-122; modified from EPA 5021A and EPA 8260C and SM 5710 B

CHLORINE INCUBATION & GC/MS - HEADSPACE

Bromodichloromethane

Bromoform

Chlorodibromomethane

Chloroform

Total Trihalomethanes (TTHM) (calculation)

**Water (Organic)**

Glyphosate - Water (172)

GLC-081; modified from ANALYTICAL & BIOANALYTICAL CHEMISTRY (2008) 391: 2265-2276

HPLC/FL-PRECOLUMN DERIVATIZATION

APMA

Glyphosate

**Water (Organic)**

Haloacetic Acids (HAA) - Water (179)

GLC-351; modified from JOURNAL OF CHROMATOGRAPHY A, 1217 (2010) 4873-4876

LC-MS/MS

Bromochloroacetic acid

Dibromoacetic acid

Dichloroacetic acid

HAA-5 (calculation)

Monobromoacetic acid

Monochloroacetic acid

Total Haloacetic acids (HAA) (calculation)

Trichloroacetic acid

**Water (Organic)**

Herbicides - Water (178)

GLC-370; IN-HOUSE

LC-MS/MS

2,4-Dichlorophenoxyacetic acid

2,4-Dichlorophenoxypropionic acid (2,4-DP)

2,4,5-TP (Silvex)

2,4,5-Trichlorophenoxyacetic acid

Dicamba

MCPA (2-Methyl-4-chlorophenoxyacetic acid)

Picloram

**Water (Organic)**

Herbicides and Pesticides - Water (143)

GLC-129; modified from EPA 3510C and EPA 8270D

GC/MS - EXTRACTION

Atrazine

Carbofuran

Chlorpyrifos ethyl

Dimethoate

Ethalfuralin

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Malathion  
Triallate  
Trifluralin

**Water (Organic)**

Hydrocarbons - Water (036)  
GLC-180; modified from EPA 3510C and EPA 8015D  
GC/FID - EXTRACTION  
F2: C10-C16  
F3: C16-C34  
F4: C34-C50

**Water (Organic)**

Hydrocarbons - Water (166)  
GLC-119; modified from EPA 5021A and EPA 8260C  
GC/FID - HEADSPACE  
F1: C6-C10

**Water (Organic)**

Pesticides and Polychlorinated Biphenyls (PCB) - Water (146)  
GLC-131, GLC-132; modified from EPA 3510C and EPA 8081B and EPA 8082A  
GC/ECD - EXTRACTION  
A -BHC  
a - Chlordane  
Aldrin  
Dieldrin  
Endosulfan I  
Endosulfan II  
Endrin  
g - Chlordane  
Heptachlor  
Heptachlor epoxide  
Lindane (gamma-BHC)  
Mirex  
o,p' - DDT  
p,p' - DDT  
p,p' Methoxychlor  
Total PCB  
Toxaphene

**Water (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Water (145)  
GLC-011; modified from EPA 3510C and EPA 8270D  
GC/MS - EXTRACTION  
1-Methylnaphthalene  
2-Methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Acridine  
Anthracene  
Benzo(a)anthracene

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Benzo(a)pyrene  
Benzo(b,j,k)fluoranthene  
Benzo(e)pyrene  
Benzo(g,h,i)perylene  
Chrysene  
Dibenzo(a,h)anthracene  
Fluoranthene  
Fluorene  
Indeno(1,2,3 - cd)pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene  
Quinoline

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (134)  
GLC-119; 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  
1,4-Dichlorobenzene  
Benzene  
Bromodichloromethane  
Bromoform  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroform  
Dichloromethane  
Ethylbenzene  
m,p-Xylene  
Methyl t-butyl ether  
o-Xylene  
Styrene  
Tetrachloroethylene  
Toluene  
Total Trihalomethanes (TTHM) (calculation)  
Total Xylenes (calculation)  
Trichloroethylene  
Vinyl chloride

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**Water (Radiochemistry)**

Gross Alpha Activity and Gross Beta Activity - Water (031)

RAD-110; modified from SM 7110 B

GAS-FLOW PROPORTIONAL COUNTING

Gross Alpha Activity

Gross Beta Activity

**Water (Radiochemistry)**

Lead-210 - Water (038)

RAD-101; modified from CANMET REPORT 78-22

GAS FLOW PROPORTIONAL COUNTING

Lead-210

**Water (Radiochemistry)**

Polonium-210 - Water (039)

RAD-103; modified from ASTM D7535 and CANMET REPORT 78-22

ALPHA SPECTROSCOPY

Polonium-210

**Water (Radiochemistry)**

Radionuclides - Water (070)

RAD-300; SM 7120 B

GAMMA SPECTROSCOPY

Actinium-228

Americium-241

Bismuth-212

Bismuth-214

Cesium-134

Cesium-137

Cobalt-60

Iodine-131

Lead-210

Lead-211

Lead-212

Lead-214

Manganese-54

Potassium-40

Radium-226

Radium-228

Thallium-208

Thorium-227

Thorium-230

Thorium-234

Uranium-235

Zinc-65

**Water (Radiochemistry)**

Radium-226 - Water (041)

RAD-105; modified from CANMET NUTP-3E

ALPHA SPECTROSCOPY

Radium-226

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**Water (Radiochemistry)**

Radium-228 - Water (132)

RAD-114; modified from EICHROM METHOD RAW01VBS and EICHROM METHOD SPA-01  
GAS FLOW PROPORTIONAL COUNTING

Radium-228

**Water (Radiochemistry)**

Radon - Water (181)

RAD-116; modified from ASTM D5072  
LIQUID SCINTILLATION

Radon

**Water (Radiochemistry)**

Strontium-90 - Water (161)

RAD-112; modified from ASTM D5811  
SOLID PHASE EXTRACTION/BETA COUNTING

Strontium-90

**Water (Radiochemistry)**

Thorium Isotopes - Water (042)

RAD-106; modified from SILL & WILLIAMS, ANALYTICAL CHEMISTRY, VOL 53, NO3, 1981  
ALPHA SPECTROSCOPY

Thorium-228

Thorium-230

Thorium-232

**Water (Toxicology)**

Ceriodaphnia dubia - Water (204)

TOX-006; EPS 1/RM/21  
SURVIVAL AND REPRODUCTION

Ceriodaphnia dubia

**Water (Toxicology)**

Daphnia magna - Water (189)

TOX-002; EPS 1/RM/14  
LETHALITY

Daphnia LC50 (48 h)

Daphnia Single Concentration (48h)

**Water (Toxicology)**

Lemna minor - Water (203)

TOX-001; EPS 1/RM/37  
GROWTH INHIBITION

Freshwater macrophyte (Lemna minor)

**Water (Toxicology)**

Rainbow Trout - Water (191)

; EPS 1/RM/13  
LETHALITY

Single Concentration (96h)

Trout LC50 (96 h)

**Water (Toxicology)**

Rainbow Trout [pH Stabilization] - Water (190)

TOX-005; EPS 1/RM/13 and EPS 1/RM/50  
LETHALITY

Single Concentration (96h)

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