



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

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: March 27, 2020
Valid To: September 3, 2022

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

Uranium

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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 (α-Chlorotoluene)

Bromodichloromethane

Bromoethene (Vinyl bromide)

Bromoform

Bromomethane

Carbon disulfide

Carbon tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethene (Vinyl chloride)

Chloroform

Chloromethane (Methyl chloride)

Cyclohexane

Dichlorodifluoromethane

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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
Barium
Beryllium

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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

Cannabis (Inorganic)

Metals - Cannabis (176)
CHM-522, PRP-034; modified from EPA 3052 (PREPARATION) and SM 3125 (ANALYSIS)
ICP/MS
Aluminum
Antimony
Barium

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Beryllium
Bismuth
Boron
Calcium
Cobalt
Copper
Iron
Magnesium
Manganese
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
Calcium
Chromium
Cobalt
Copper
Iron
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silver

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Sodium
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

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)
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)

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)

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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

Endosulfan I (a-Endosulfan)

Endosulfan II (b-Endosulfan)

Etridiazole

Fenthion

Fenvalerate

Methyl parathion

Cannabis (Organic)

Pesticides - Cannabis [Cannabis Oil] (197)

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

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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
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

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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

Endosulfan I (a-Endosulfan)
Endosulfan II (b-Endosulfan)
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
Bifenthrin
Boscalid
Buprofezin
Carbaryl
Carbofuran
Chlorantraniliprole
Chlorphenapyr
Chlorpyrifos

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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
Malathion
Metalaxyl
Methiocarb
Methomyl
Methoprene
Mevinphos (Phosdrin)
MGK-264
Myclobutanil
Naled (Dibrom)
Novaluron
Oxamyl
Paclobutrazol
Permethrin
Phenothrin
Phosmet (Imidan)

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Piperonyl butoxide
Pirimicarb
Prallethrin
Propiconazole
Pyraclostrobin
Pyradiben
Pyrethrins
Resmethrin
Spinetoram
Spinosad
Spirodiclofen
Spiromesifen
Spirotetramat
Spiroxamine
Tebuconazole
Tebufenozide
Teflubenzuron
Tetrachlorvinphos
Tetramethrin
Thiacloprid
Thiamethoxam
Thiophanate-methyl
Trifloxystrobin

Cannabis (Organic)

Terpenes - Cannabis [Cannabis Oil] (199)

; IN-HOUSE

GC/MS

4-isopropyltoluene (p-Cymene)

alpha-Terpinene

Camphene

delta-3-Carene

gamma-Terpinene

Geraniol

Guaiol

(-)-Isopulegol

Nerolidol

Ocimene

Terpineol

Cannabis (Organic)

Terpenes - Cannabis [Plants] (198)

CAN-002; IN-HOUSE

GC/MS

4-isopropyltoluene (p-Cymene)

alpha-Terpinene

Camphene

delta-3-Carene

gamma-Terpinene

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Geraniol
Guaiol
(-)-Isopulegol
Nerolidol
Ocimene
Terpineol

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

Fuel (Inorganic)

Anions - Fuel [Fuel Ethanol] (096)

CHM-133, CHM-134; modified from ASTM D7319

ION CHROMATOGRAPHY

Inorganic Chloride
Sulphate (Sulfate)

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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

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

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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

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

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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
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Molybdenum
Nickel
Selenium
Silver

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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

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

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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

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

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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 ((Parameter suspended on 12/2/2019))

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
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese

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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
Bismuth-214
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

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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

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)

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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

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

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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

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

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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
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

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Water (Inorganic)

Nitrate - Water (089)

CHM-124; modified from EPA 353.2

COLORIMETRIC - DISCRETE

Nitrate plus Nitrite

Nitrite

Water (Inorganic)

Nitrilotriacetic Acid (NTA) - Water (085)

CHM-320; EPA 430.1

COLORIMETRIC

Nitrilotriacetic 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

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)

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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

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

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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

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

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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) ((Parameter suspended on 2/18/2020))

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-D)

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

2,4,5-TP (Silvex)

2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)

Bromoxynil

Dicamba

Diclofop-methyl

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

Ethalfluralin

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

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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

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

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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

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

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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

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

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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)

Daphnia magna - Water (189)

TOX-002; EPS 1/RM/14

LETHALITY

Daphnia LC50 (48 h)

Daphnia Single Concentration (48h)

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)

Trout LC50 (96h)

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