



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 2472
Laboratory Name: SRC Environmental Analytical Laboratories
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: September 14, 2018
Valid To: August 29, 2020

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

Vanadium

Zinc

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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-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloroethene (E)
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 ((Parameter suspended on 9/14/2018))
2-Butanone (Methyl ethyl ketone, MEK)
2-Hexanone (MBK)
4-Ethyltoluene
Benzene
Benzyl chloride
Bromodichloromethane
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane
Cyclohexane
Dibromochloromethane
Dichlorodifluoromethane
Dichlorotetrafluoroethane
Ethyl acetate
Ethylbenzene
Heptane ((Parameter suspended on 9/14/2018))
Hexachlorobutadiene
Hexane
Isopropyl alcohol
m,p-Xylene
Methyl isobutyl ketone (MIBK)
Methylene chloride
o-Xylene
Propene
Styrene
t-Butyl methyl ether (MTBE)
Tetrachloroethylene

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Toluene
Trichloroethylene
Trichlorofluoromethane

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

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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 CANMET REPORT 78-22
ALPHA SPECTROSCOPY
Polonium-210

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; modified from ASTM D7319
ION CHROMATOGRAPHY
Inorganic Chloride
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 4052
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 Sulfur

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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

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

Oil (Organic)

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

Oil (Radiochemistry)

Total Organic Halogens - Oil (044)
RAD-358; modified from EPA 9022
NAA
Total Organic Halogens

Soil

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

Soil (Inorganic)

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

Soil (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

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

Soil (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 (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)

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

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Potassium
Selenium
Silver
Sodium
Strontium
Thallium
Thorium
Thorium-232 (Calculated)
Tin
Titanium
Uranium
Uranium-234 (Calculated)
Uranium-235 (Calculated)
Uranium-238 (Calculated)
Vanadium
Zinc

Solids (Inorganic)

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

Solids (Inorganic)

Sulphate - Solids [Soil] (053)
CHM-517, CHM-624; MEND REPORT 1.20.1 and SM 3120
ICP/OES - DIGESTION
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] (174)
GLC-PRP-024; EPA 1311 (PREPARATION)
GC/MS - HEADSPACE - TCLP
1,2-Dichlorobenzene
1,2-Dichloroethane
1,4-Dichlorobenzene
Benzene
Carbon tetrachloride

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Chlorobenzene
Chloroform
Dichloromethane
Tetrachloroethylene
Trichloroethylene

Solids (Radiochemistry)

Extractable Organic Halogens - Solids [Soil] (043)
RAD-356; modified from EPA 9022 and EPA 9023
NAA - EXTRACTION
Extractable Organic Halogens

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 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
Zinc-65

Solids (Radiochemistry)

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

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Solids (Radiochemistry)

Radium-228 - Solids [Soil] (133)
RAD-114; modified from CANMET NUTP-8E
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

Solids (Radiochemistry)

Uranium - Solids [Sediment, Soil] (029)
RAD-202; AECL DOCUMENT
DELAYED NEUTRON COUNTING
Uranium

Swab (Organic)

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

Uranium Concentrates (Inorganic)

Uranium - Minerals (105)
RAD-204; BRR CAM: U-25
TITRIMETRIC
Uranium

Vegetation

Lead-210 - Tissue [Vegetation] (129)
PRP-034, RAD-101; modified from ASTM 7535 and CANMET REPORT 78-22
GAS FLOW PROPORTIONAL COUNTING
Lead-210

Vegetation

Polonium-210 - Tissue [Vegetation] (127)
RAD-103; modified from CANMET REPORT 78-22
ALPHA SPECTROSCOPY
Polonium-210

Vegetation

Radionuclides - Tissue [Vegetation] (126)
RAD-300; SM 7120 B
GAMMA SPECTROSCOPY
Actinium-228
Americium-241
Bismuth-214
Cesium-134
Cesium-137
Iodine-131

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Lead-210
Lead-212
Lead-214
Manganese-54
Potassium-40
Radium-226
Ruthenium-103
Thorium-230
Thorium-234
Zinc-65

Vegetation

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

Vegetation

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

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
Mercury
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silver
Sodium
Strontium
Thallium
Tin

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Titanium
Uranium
Vanadium
Zinc

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 (Calculated)
Carbonate (Calculated)
Hydroxide (Calculated)
Inorganic Carbon (Calculated)
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
MBAS

Water (Inorganic)

Anions - Water (002)
CHM-133; 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 (Calculated)

Water (Inorganic)

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

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Water (Inorganic)

Chlorate and Chlorite and Bromate - Water (111)

CHM-133; 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; 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 (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

Sulfur

Water (Inorganic)

Dissolved Metals - Water (008)

CHM-501, CHM-517; modified from SM 3030 and SM 3120

ICP/OES

Aluminum

Barium

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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
Copper
Dysprosium
Erbium
Europium
Gadolinium
Holmium
Iron
Lanthanum
Lead
Lithium
Lutetium
Manganese
Molybdenum
Neodymium
Nickel
Phosphorus
Praseodymium
Samarium
Scandium
Selenium
Silver
Strontium

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Terbium
Thallium
Thorium
Thorium-230
Thorium-232 (Calculated)
Thulium
Tin
Titanium
Uranium
Uranium-234 (Calculated)
Uranium-235 (Calculated)
Uranium-238 (Calculated)
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
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

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Water (Inorganic)

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

Water (Inorganic)

Phosphate - Water (009)
CHM-116, HM-116; SM 4500-P F
COLOR
Inorganic Phosphate
Organic Phosphate (calculated)
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 (Calculation)
Total Suspended Solids

Water (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Water (110)
CHM-128, PRP-128; modified from EPA 351.2
COLOR - DIGESTION - SEAL
Total Kjeldahl Nitrogen
Total Nitrogen (Calculation)

Water (Inorganic)

Total Metals - Water (091)
CHM-501, CHM-517; modified from EPA 200.8 and SM 3120
ICP/OES - DIGESTION
Aluminum
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Molybdenum
Nickel
Phosphorus
Silver
Strontium
Titanium
Vanadium
Zinc

Water (Inorganic)

Total Metals - Water (092)
CHM-501, CHM-522; modified from EPA 200.8 and SM 3125
ICP/MS - DIGESTION
Aluminum

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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 (E. 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

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2,4,6-Trichlorophenol
Pentachlorophenol

Water (Organic)

Extractable Organic Halogens - Water (153)
RAD-357; modified from EPA 9022 and EPA 9023
NAA - EXTRACTION
Extractable Organic Halogens

Water (Organic)

Formation Potential (Haloacetic Acids) - Water (107)
GLC-122, GLC-350; modified from EPA 552.3 and SM 5710 B
CHLORINE INCUBATION & GC/ECD-EXTRACTION
Bromochloroacetic acid
Dibromoacetic acid
Dichloroacetic acid
HAA-5 (calculation)
Monobromoacetic acid (MBAA)
Monochloroacetic acid (MCAA)
Total Haloacetic Acids (Calculation)
Trichloroacetic acid (TCAA)

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 (Calculation)

Water (Organic)

Glyphosate - Water (172)
GLC-081; GL SCIENCES INC. LC TECHNICAL NOTE 13
HPLC/FL-PRECOLUMN DERIVATIZATION
APMA
Glyphosate

Water (Organic)

Haloacetic Acids (HAA) - Water (086)
GLC-350; modified from EPA 552.3
GC/ECD - EXTRACTION
Bromochloroacetic acid
Dibromoacetic acid
Dichloroacetic acid
HAA-5 (calculation)
Monobromoacetic acid (MBAA)
Monochloroacetic acid (MCAA)
Total Haloacetic Acids (Calculation)
Trichloroacetic acid (TCAA)

Water (Organic)

Herbicides - Water (144)
GLC-095; modified from EPA 3510C and EPA 8151A and EPA 8270D
GC/MS - EXTRACTION
2,4-Dichlorophenoxyacetic acid
2,4-DP (dichlorprop)

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2,4,5-TP (Silvex)
2,4,5-Trichlorophenoxyacetic acid
Bromoxynil
Dicamba
Diclofop-methyl (as free acid)
MCPA
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

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 3620C and EPA 8081B and EPA 8082A
GC/ECD - EXTRACTION
A -BHC
a - Chlordane
Aldrin
Dieldrin
Endosulfan I (Parameter suspended on 8/11/2018)
Endosulfan II
Endrin
g - Chlordane
Heptachlor
Heptachlor Epoxide
Lindane (gamma-BHC)
Mirex
o,p' - DDT
p,p' - DDT
p,p' Methoxychlor
Total PCB
Toxaphene

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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,i,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

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Total Trihalomethanes (Calculation)
Trichloroethylene
Vinyl Chloride
Xylene; total (calculated)

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 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 CANMET NUTP-3E
GAS FLOW PROPORTIONAL COUNTING

Radium-228

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

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