



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 3200
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: March 15, 2018
Valid To: May 9, 2020

Scope of Accreditation

Air

Volatile Organic Compounds (VOC) - Air (McAdam Road) (126)
AQM-248-16000; modified from EPA TO-15
GC-MS (Cryogenic Trap)
1-Ethyl-4-methylbenzene
1,1-Dichloroethane
1,1-Dichloroethene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,1,2-Trichlorotrifluoroethane (Freon 113)
1,1,2,2-Tetrachloroethane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2-Dichlorotetrafluoroethane (Halo 114)
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3-Butadiene
1,3-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
1,4-Dioxane
2-Hexanone
Acetone
Benzene
Benzyl chloride

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Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane (Ethyl Chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-dichloroethene
cis-1,3-Dichloropropene
Cyclohexane
Decane
Dibromochloromethane
Dichlorodifluoromethane (Halo 12)
Dichloromethane
Ethanol
Ethyl acetate
Ethylbenzene
Heptane
Hexachlorobutadiene
Hexane
Isooctane
Isopropanol
m,p-Xylene
Methyl ethyl ketone (MEK)
Methyl isobutyl ketone (MIBK)
Methyl methacrylate
Methyl t-butyl ether (MTBE)
Naphthalene
o-Xylene
Pentane
Propylene
Styrene
Tetrachloroethene
Tetrahydrofuran
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane (Freon 11)
Vinyl acetate
Vinyl bromide
Vinyl chloride

Air (Inorganic)

Metals - Air (150)

MET-93-6103; modified from EPA 6020

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

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Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Molybdenum
Nickel
Phosphorus
Selenium
Silver
Strontium
Thallium
Vanadium
Zinc

Air (Organic)

Fixed Gases - Air (McAdam Road) (145)
AQM-248-16003; modified from ASTM D1946-90
GC/TCD
CH4
CO
CO2
N2
O2

Air (Organic)

Petroleum Hydrocarbons (PHC) - Air (McAdam Road) (138)
AQM-248-16001; modified from METHOD FOR THE DETERMINATION OF AIR-PHASE PETROLEUM
HYDROCARBONS (APH), REV 1, DEC 2009, MASSACHSETTS DEP OF EPA
GC/MS (Cryogenic Trap)
1-Methyl-3-ethylbenzene
1,2,3-Trimethylbenzene
1,3-Butadiene
1,3,5-Trimethylbenzene
2,3-Dimethylheptane
2,3-Dimethylpentane
Benzene
Butylcyclohexane
>C10-C12 Aliphatic
>C10-C12 Aromatic
>C10-C16 Aliphatic
>C10-C16 Aromatic
>C12-C16 Aliphatic
>C12-C16 Aromatic
>C6-C8 Aliphatic
>C6-C8 Aromatic
>C8-C10 Aliphatic
>C8-C10 Aromatic
Cumene (Isopropylbenzene)
Cyclohexane
Ethylbenzene
Hexane

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Isopentane
m,p-Xylene
Methyl t-butyl ether (MTBE)
n-Decane
n-Dodecane
n-Heptane
n-Nonane
n-Octane
n-Undecane
Naphthalene
o-Xylene
p-Isopropyltoluene
Toluene

Air (Organic)

Volatile Organic Compounds (VOC) - Air (McAdam Road) (146)
AQM-248-16002; modified from EPA METHOD TO-15
GC/MS

1-Ethyl-4-methylbenzene
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-Dichloropropane
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
Benzene
Bromodichloromethane
Bromoform
Carbon tetrachloride
Chlorobenzene
Chloroethane (Ethyl Chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Dichloromethane
Ethylbenzene
Hexane
m,p-Xylene
Methyl t-butyl ether (MTBE)
o-Xylene
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene

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Trichloroethene
Trichlorofluoromethane
Vinyl chloride

Oil (Organic)

Total Polychlorinated Biphenyls (PCB) - Oil (099)
ORG-91-5115; modified from EPA SW-846 3620C and EPA SW-846 3665A and EPA SW-846 8082A
GC/ECD
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268
Total PCB

Paint (Inorganic)

Mercury - Paint (144)
MET-93-6101; modified from EPA 7471B
COLD VAPOUR AA - SPECTROMETRIC
Mercury

Paint (Inorganic)

Metals - Paint (100)
MET-93-6106; modified from EPA SW-846 6010
ICP/OES
Arsenic
Lead
Mercury

Soil

BTEX - Soil (136)
VOL-91-5009; modified from EPA SW-846 5035C and EPA SW-846 8260C
GC/MS - PURGE AND TRAP
Benzene
Ethylbenzene
m/p-xylene
o-xylene
Toluene

Soil (Inorganic)

Metals - Soil, Biosolids (120)
MET-93-6105; EPA SW-846 3050B and EPA SW-846 6010C
ICP/OES - DIGESTION
Aluminum
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron

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Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Silicon
Silver
Sodium
Strontium
Sulfur
Thallium
Tin
Titanium
Vanadium
Zinc

Soil (Inorganic)

Particle Size Analysis (PSA) - Soil (148)
INOR-93-6065; modified from ASTM D1140
SIEVE
75um, %retained

Soil (Organic)

Glycols - Soil (141)
ORG-91-5116; modified from EPA 8015C
GC/FID
Diethylene glycol
Ehtylene Glycol
Propylene glycol

Soil/Sediment

Organic Carbon - Soil, Sediment (139)
INOR-93-6062; SOIL SAMPLING & METHODS OF ANALYSIS, COLORIMETRIC-WET CHEMICAL DIGESTION
COLORIMETRIC - WET CHEMICAL DIGESTION
Fraction Organic Carbon
Organic Carbon

Solid Biosolids

Solids - Solid Biosolids (116)
INOR-93-6028; modified from EPA 1684 and MOE E3139
GRAVIMETRIC
Total Solids
Volatile Solids

Solids (Inorganic)

Anions - Soil (037)
INOR-93-6004; modified from SM 4110 B
ION CHROMATOGRAPHY
Bromide
Chloride
Fluoride
Nitrate-N
Nitrite
Phosphate-P
Sulphate

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Solids (Inorganic)

Asbestos - Bulk (McAdam Road) (115)
INOR-249-6010; modified from NIOSH 9002, ISSUE 2 and EPA/600/R-93/116
POLARIZED LIGHT MICROSCOPY (PLM)
Bulk Asbestos

Solids (Inorganic)

Cations - Soil (069)
INOR-93-6007; modified from EPA SW-846 6010C
ICP - EXTRACTION
Calcium
Magnesium
Potassium
Sodium

Solids (Inorganic)

Conductivity - Soil (045)
INOR-93-6036; modified from SM 2510 B and MSA PART 3, CH 14
CONDUCTIVITY METER
Conductivity (25°C)

Solids (Inorganic)

Fluoride - Soil Leachate (080)
LAB-93-4025, INOR-93-6018; EPA SW-846 1311 (LEACHATE) and modified from SM 4500-F- C (ANALYSIS)
ELECTRODE - TCLP
Fluoride

Solids (Inorganic)

Free Cyanide - Soil (043)
INOR-93-6052; modified from SM 4500-CN- I and MOEE CN 3015
COLORIMETRIC
Free Cyanide

Solids (Inorganic)

Free Cyanide - Soil Leachate (102)
LAB-93-4025, INOR-93-6052; EPA SW-846 1311 (LEACHATE) and modified from SM 4500-CN- I and MOEE CN 3015 (ANALYSIS)
TCLP - COLORIMETRIC
Cyanide (WAD)

Solids (Inorganic)

Hexavalent Chromium - Soil (042)
INOR-93-6029; modified from MSA PART 3 & CH25 and SM 3500-CR B
COLORIMETRIC
Hexavalent chromium

Solids (Inorganic)

Hot Water Soluble Boron - Soil (067)
MET-93-6104; modified from MSA PART 3, CH 21 and EPA SW-846 6010C
ICP - EXTRACTION
Boron (HWE)

Solids (Inorganic)

Mercury - Soil Leachate (081)
LAB-93-4025, MET-93-6100; EPA SW-846 1311 (LEACHATE) and modified from SM 3112 A and EPA 245.5 and SW-846 7471A (ANALYSIS)
COLD VAPOUR AA - TCLP
Mercury

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Solids (Inorganic)

Mercury - Soil, Solid Biosolids (038)
MET-93-6101; modified from SM 3112 B and EPA SW-846 7471B
COLD VAPOUR AA - DIGESTION
Mercury

Solids (Inorganic)

Metals - Soil, Leachate (078)
LAB-93-4025, MET-93-6103; EPA SW-846 1311 (LEACHATE) and EPA 6020B (ANALYSIS)
ICP/MS - TCLP
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Selenium
Silver
Strontium
Thallium
Titanium
Uranium
Vanadium
Zinc

Solids (Inorganic)

Metals - Soil, Solid Biosolids (039)
MET-93-6103; modified from EPA SW-846 3050B and EPA SW-846 6020B and MOE E3071
ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cerium
Cesium
Chromium
Cobalt
Copper

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Europium
Gallium
Iron
Lanthanum
Lead
Lithium
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Niobium
Phosphorus
Potassium
Rubidium
Scandium
Selenium
Silicon
Silver
Sodium
Strontium
Thallium
Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium
Yttrium
Zinc
Zirconium

Solids (Inorganic)

Nitrate plus Nitrite - Soil, Leachate, Solid Biosolids (079)
LAB-93-4025, INOR-93-6053; EPA SW-846 1311 (LEACHATE) and modified from LACHAT 10-107-04- J
(ANALYSIS) and EPA 1685 (ANALYSIS)
COLORIMETRIC - TCLP
Nitrate plus Nitrite

Solids (Inorganic)

Oil and Grease - Soil (103)
VOL-91-5011; modified from MOE E3398 and EPA SW-846 3510C
GRAVIMETRIC
Mineral Oil and Grease
Total Oil and Grease

Solids (Inorganic)

Percent Moisture - Soil (101)
VOL-91-5009; CCME
GRAVIMETRIC
Percent Moisture

Solids (Inorganic)

pH - Soil (107)
INOR-93-6031; modified from MCKEAGUE 3.11 and EPA SW-846 9045D
METER, CACL2 EXTRACTION
pH (1:2): CaCl2

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Solids (Inorganic)

pH - Soil, Solid Biosolids (044)

INOR 93-6031; modified from SM 4500-H+ B and EPA SW-846 9045D and MSA PART3 CH21 and MOE E3137

pH-METER

pH 1:10

pH (1:2)

Solids (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Soil, Solid Biosolids (110)

INOR-93-6048; modified from SM 4500-NORG D and EPA 1687

AUTOMATED COLORIMETRY - MANUAL DIGESTION

Kjeldahl Nitrogen

Solids (Organic)

1,4-Dioxane - Soil (122)

VOL-91-5015; modified from EPA 5035C and EPA 1624C

GC/MS - PURGE AND TRAP, ISOTOPE DILUTION

1,4-Dioxane

Solids (Organic)

Base Neutral Acid Extractables (BNA) - Soil (074)

ORG-91-5114; modified from MOE E3265 and EPA 625 and SW-846 3510C and SW-846 8270D

GC/MS - EXTRACTION

1-Methylnaphthalene

1,1-Biphenyl

1,2,4-Trichlorobenzene

2-Chloronaphthalene

2-Chlorophenol

2-Methyl-4,6-dinitrophenol

2-Methylnaphthalene

2-Nitrophenol

2,3,4,6-Tetrachlorophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

2,4-Dinitrotoluene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,6-Dichlorophenol

2,6-Dinitrotoluene

3,3-Dichlorobenzidine

4-Bromophenylphenyl ether

4-Chloro-3-methyl phenol

4-Chlorophenoxyphenyl ether

4-Nitrophenol

Acenaphthene

Acenaphthylene

Anthracene

Azobenzene

Benzo (a) anthracene

Benzo (a) pyrene

Benzo (b) fluoranthene

Benzo (b+j) fluoranthene

Benzo (g,h,i) perylene

Benzo (k) fluoranthene

Bis(2-chloroethoxy)methane

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Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl) phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Di-n-butyl phthalate
Di-n-octyl phthalate
Dibenzo (a,h) anthracene
Diethyl phthalate
Dimethyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3 - cd) pyrene
Isophorone
m,p-Cresol
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine + Diphenylamine
Naphthalene
Nitrobenzene
o-Cresol
p-Chloroaniline
Pentachlorophenol
Phenanthrene
Phenol
Pyrene

Solids (Organic)

Herbicides - Soil (131)

ORG-91-5110; modified from EPA SW-846 8151A and EPA 515.1

GC/ECD - EXTRACTION

2,3,4,6-Tetrachlorophenol
2,4-Dichlorophenoxyacetic acid
2,4-DP
2,4,5-Trichlorophenol
2,4,5-Trichlorophenoxyacetic acid
2,4,6-Trichlorophenol
Bromoxynil
Dicamba
Dichlorprop
Diclofop-methyl (as free acid)
Dinoseb
MCPA
MCPP
Pentachlorophenol
Picloram
Silvex

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Solids (Organic)

Organochlorine (OC) Pesticides - Soil (040)

ORG-91-5113; modified from EPA SW-846 3541 and EPA SW-846 3550B and EPA SW-846 3620B and EPA SW-846 8081A

GC/ECD - EXTRACTION

Aldrin

alpha-BHC

alpha-Chlordane

beta-BHC

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan Sulfate

Endrin

Endrin Aldehyde

Endrin Ketone

gamma-Chlordane

Heptachlor

Heptachlor epoxide

Hexachlorobenzene

Hexachlorobutadiene

Hexachloroethane

Lindane (gamma-BHC)

Methoxychlor

Mirex

o,p-DDD

op'-DDE

op'-DDT

Oxychlordane

pp'-DDD

pp'-DDE

pp'-DDT

Solids (Organic)

Organophosphorus (OP) Pesticides - Soil (129)

ORG-91-5103; modified from EPA SW-846 3510C and EPA SW-846 8141A and EPA SW-846 8270D

GC/MS - EXTRACTION

Azinphos-methyl

Chlorpyrifos

Diazinon

Dimethoate

Malathion

Parathion-ethyl

Phorate

Terbufos

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Soil (041)

VOL-91-5009; CCME CWS-PHC-TIER 1 METHOD

GC/FID - EXTRACTION

F1: C6-C10

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Solids (Organic)

Petroleum Hydrocarbons (PHC) - Soil (052)
VOL-91-5009; CCME CWS-PHC-TIER 1 METHOD
GRAVIMETRIC
F4: Gravimetric

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Soil (083)
VOL-91-5009; CCME CWS-PHC-TIER 1 METHOD
GC/FID - COLD SHAKE EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Soil (060)
ORG-91-5113; modified from EPA SW-846 3541 and EPA SW-846 3550B and EPA SW-846 3620B and EPA SW-846 8081A and EPA SW-846 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) - Soil (005)
ORG-91-5106; modified from EPA SW-846 3541 and EPA SW-846 8270D
GC/MS - EXTRACTION
1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
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)

Total Extractable Hydrocarbons (TEH) - Soil (016)
VOL-91-5006; modified from EPA SW-846 3541 and EPA SW-846 8015B
GC/FID - EXTRACTION
C10-C24 (Diesel)

Solids (Organic)

Total Polychlorinated Biphenyls (PCB) - Waste (151)
LAB-93-4025, ORG-91-5112; EPA 1311 (LEACH) and modified from EPA 8082A
GC/ECD - TCLP
Total PCB

Solids (Organic)

Total Purgeable Hydrocarbons (TPH) - Soil (004)
VOL-91-5004; modified from EPA SW-846 5030B and EPA SW-846 8015C
GC/FID - PURGE AND TRAP
Total Purgeable Hydrocarbons (Gas/Diesel)

Solids (Organic)

Triazine Pesticides - Soil (130)
ORG-91-5104; modified from EPA SW-846 3510C and EPA SW-846 8270D and MOE E3121
GC/MS - EXTRACTION
Alachlor
Atrazine
Cyanazine
De-ethylated atrazine
Metolachlor
Metribuzin
Prometryne
Simazine
Trifluralin

Solids (Organic)

Volatile Organic Compounds (VOC) - Soil (001)
VOL-91-5002; modified from EPA SW-846 5035C and EPA SW-846 8260C
GC/MS - PURGE AND TRAP
1,1-Dichloroethane
1,1-dichloroethylene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2- TRICHLORO-1,2,2,-TRIFLUOROETHANE (FREON 113)
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-dichlorobenzene
1,2-dichloroethane
1,2-Dichloropropane
1,2-DICHLOROTETRAFLUOROETHANE (FREON 114)
1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-dichlorobenzene
2-Hexanone
2,2-DICHLORO-1,1,1-TRIFLUOROETHANE (Freon 123)
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform

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Bromomethane
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
CHLORODIFLUOROMETHANE (FREON 22)
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichlorodifluoromethane (Freon 12)
DICHLOROFLUOROMETHANE (FREON 21)
Dichloromethane
Ethylbenzene
Ethylene Dibromide
m/p-xylene
Methyl Ethyl Ketone
Methyl isobutyl Ketone
Methyl t-butyl ether
n-Hexane
o-xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

Solids (Organic)

Volatile Organic Compounds (VOC) - Soil Leachate (082)

LAB-93-4025, VOL-91-5001; EPA SW-846 1311 (LEACHATE) and EPA 5035C and EPA 8260B (ANALYSIS)
GC/MS - TCLP

1,1-Dichloroethylene
1,2-Dichlorobenzene
1,2-Dichloroethane
1,4-Dichlorobenzene
Benzene
Carbon tetrachloride
Chlorobenzene
Chloroform
Dichloromethane
Ethylbenzene
m,p-Xylene
Methyl ethyl ketone
o-Xylene
Tetrachloroethylene
Toluene
Trichloroethylene
Vinyl chloride

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Tissue (Inorganic)

Metals - Tissue (127)

MET-93-6103; modified from EPA SW-846 3050B and EPA SW-846 6020C and MOE E3071 and MOE E3094

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cerium

Cesium

Chromium

Cobalt

Copper

Europium

Gallium

Iron

Lanthanum

Lead

Lithium

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Niobium

Phosphorus

Potassium

Rubidium

Scandium

Selenium

Silicon

Silver

Sodium

Strontium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Yttrium

Zinc

Zirconium

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Vegetation

Metals - Vegetation (128)

MET-93-6103; modified from EPA SW-846 3050B and EPA SW-846 6020C and MOE E3071 and MOE 3094

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cerium

Cesium

Chromium

Cobalt

Copper

Europium

Gallium

Iron

Lanthanum

Lead

Lithium

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Niobium

Phosphorus

Potassium

Rubidium

Scandium

Selenium

Silicon

Silver

Sodium

Strontium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Yttrium

Zinc

Zirconium

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Water (Inorganic) Alkalinity - Water (017) INOR-93-6000; modified from SM 2320 B TITRIMETRIC Alkalinity (pH 4.5)	OSDWA †
Water (Inorganic) Ammonia - Water (018) INOR-93-6002; modified from SM 4500-NH3 F AUTO COLOR Ammonia	OSDWA †
Water (Inorganic) Ammonia - Water (125) INOR-93-6059; modified from SM 4500-NH3 H AUTO COLOR Ammonia	OSDWA †
Water (Inorganic) Anions - Water (019) INOR-93-6004; modified from SM 4110 B ION CHROMATOGRAPHY Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	OSDWA †
Water (Inorganic) Biochemical Oxygen Demand (BOD) - Water (020) INOR-93-6006; modified from SM 5210 B D.O. METER BOD (5 day) CBOD (5 day)	OSDWA †
Water (Inorganic) Carbon - Water (076) INOR-93-6049; modified from SM 5310 B IR - COMBUSTION Inorganic Carbon Organic Carbon	OSDWA †
Water (Inorganic) Chemical Oxygen Demand (COD) - Water (059) INOR-93-6042; modified from SM 5220 A and SM 5220 D SPECTROPHOTOMETRIC COD	OSDWA †
Water (Inorganic) Colour - Water (114) INOR-93-6046; modified from SM 2120 C SPECTROPHOTOMETRIC, VISIBLE True Colour	OSDWA †

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Water (Inorganic)

OSDWA †

Conductivity - Water (025)
INOR-93-6016; modified from SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Water (Inorganic)

Conductivity - Water (111)
INOR-93-6000; modified from SM 2510 B
AUTOMATED CONDUCTIVITY (TITRASIP)
Conductivity (25°C)

Water (Inorganic)

OSDWA †

Cyanide - Water (084)
INOR-93-6051; modified from MOEE METHOD CN 3015 and SM 4500-CN- A and SM 4500-CN- B and SM 4500-CN- C
AUTO COLOR
Cyanide (SAD)

Water (Inorganic)

OSDWA †

Cyanide - Water (085)
INOR-93-6052; modified from MOEE CN 3015 and SM 4500-CN- I
AUTO COLOR
Free Cyanide

Water (Inorganic)

Dissolved Metals - Water (028)
MET-93-6103; modified from EPA SW-846 3005A and EPA SW-846 200.8
ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cerium
Cesium
Chromium
Cobalt
Copper
Europium
Gallium
Iron
Lanthanum
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Niobium
Phosphorus
Potassium
Rubidium

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Scandium
Selenium
Silicon
Silver
Sodium
Strontium
Thallium
Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium
Yttrium
Zinc
Zirconium

Water (Inorganic)

Dissolved Metals - Water (086)

MET-93-6105; modified from EPA SW-846 6010C

ICP/OES

Aluminum
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Silicon
Silver
Sodium
Strontium
Sulfur
Tin
Titanium
Vanadium
Zinc
Zirconium

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Water (Inorganic) Ferrous Iron - Water (140) INOR-93-6056; modified from SM 3500-FE B COLORIMETRIC Ferrous Iron (Fe ²⁺)	
Water (Inorganic) Fluoride - Water (026) INOR -93-6018; modified from SM 4500-F- C SELECTIVE ION ELECTRODE Fluoride	OSDWA †
Water (Inorganic) Hexavalent Chromium - Water (046) INOR-93-6034; modified from SM 3500-CR B COLORIMETRIC Hexavalent Chromium	OSDWA †
Water (Inorganic) Mercury - Water (027) MET-93-6100; modified from SM 3112 B and EPA 245.2 COLD VAPOUR AA - DIGESTION Mercury	OSDWA †
Water (Inorganic) Oil and Grease - Water (098) VOL-91-5011; modified from SM 5520 A and SM 5520 B and SM 5520 E and SM 5520 F GRAVIMETRIC Mineral Oil and Grease Total Oil and Grease	OSDWA †
Water (Inorganic) pH - Water (029) INOR-93-6020; modified from SM 4500-H+ B pH METER pH	OSDWA †
Water (Inorganic) pH - Water (104) INOR-93-6000; modified from SM 4500-H+ B PC TITRATE pH	OSDWA †
Water (Inorganic) Phenols - Water (075) INOR-93-6050; SM 5530 D and MOE METHOD ROPHEN E3179 TECHNICON Total Phenolics	OSDWA †
Water (Inorganic) Reactive Silica - Water (071) INOR-93-6047; modified from EPA 370.1 AUTO COLOR Reactive Silica	OSDWA †
Water (Inorganic) Residual Chlorine - Water (119) INOR-93-6055; modified from SM 4500-CL F TITRATION Total Chlorine	

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Water (Inorganic)	OSDWA †
Solids - Water, Liquid Biosolids (032)	
INOR-93-6028; modified from EPA 1684 and MOE E3139 and SM 2540 B and SM 2540 C and SM 2540 D	
GRAVIMETRIC	
Total Dissolved Solids	
Total Solids	
Total Suspended Solids	
Volatile Suspended Solids	
Water (Inorganic)	OSDWA †
Sulphide - Water (113)	
INOR-93-6054; modified from SM 4500-S2- D	
COLORIMETRIC	
Sulphide	
Water (Inorganic)	OSDWA †
Tannin and Lignin - Water (124)	
INOR-93-6058; modified from SM 5550-B	
COLORIMETRIC	
Tannin and Lignin	
Water (Inorganic)	OSDWA †
Total Kjeldahl Nitrogen (TKN) - Water (072)	
INOR-93-6048; modified from EPA 351.2 and SM 4500-NORG D	
AUTO COLOR	
Total Kjeldahl Nitrogen	
Water (Inorganic)	OSDWA †
Total Metals - Water (070)	
MET-93-6103; modified from EPA SW-846 6020C and EPA SW-846 3010A and EPA SW-846 3005A and EPA 200.8	
ICP/MS - DIGESTION	
Aluminum	
Antimony	
Arsenic	
Barium	
Beryllium	
Bismuth	
Boron	
Cadmium	
Cerium	
Cesium	
Chromium	
Cobalt	
Copper	
Europium	
Gallium	
Iron	
Lanthanum	
Lead	
Manganese	
Molybdenum	
Nickel	
Niobium	
Rubidium	
Scandium	
Selenium	

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Silver
Strontium
Thallium
Thorium
Titanium
Tungsten
Uranium
Vanadium
Yttrium
Zinc
Zirconium

Water (Inorganic)

OSDWA †

Total Metals - Water (121)

MET-93-6105; modified from EPA SW 846-6010C

ICP/OES - DIGESTION

Aluminum
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Silicon
Silver
Sodium
Strontium
Sulfur
Thallium
Tin
Titanium
Vanadium
Zinc
Zirconium

Water (Inorganic)

OSDWA †

Total Phosphorus - Water (030)

INOR-93-6022; modified from SM 4500-P B and SM 4500-P E

COLORIMETRIC

Total Phosphorus

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Water (Inorganic) Total Phosphorus - Water (112) INOR-93-6057; modified from LACHAT 10-115-01-3A AUTOMATED COLORIMETRY - IN-LINE Total Phosphorus	
Water (Inorganic) Turbidity - Water (057) INOR-93-6044; modified from SM 2130 B TURBIDIMETRIC Turbidity	OSDWA †
Water (Inorganic) UV Absorbance and Transmittance - Water (132) INOR-93-6061; SM 5910 B UV SPECTROPHOTOMETER UV Absorbance (254 nm) UV Transmittance (254 nm)	OSDWA †
Water (Microbiology) Coliforms - Water (056) MIC-93-7010; modified from EPA 1604 and MOE METHOD E3433 MEMBRANE FILTRATION (MI AGAR) Escherichia coli (E. coli) Total Coliforms	OSDWA †
Water (Microbiology) Coliforms - Water (135) MIC-93-7010; MOE E3407 MEMBRANE FILTRATION (DC-AGAR) Background Colony Counts Escherichia coli (E. coli) Total Coliforms	OSDWA †
Water (Microbiology) Fecal (Thermotolerant) Coliforms - Water (055) MIC-93-7000; modified from SM 9222 D MEMBRANE FILTRATION (mFC) Fecal (Thermotolerant) Coliforms	OSDWA †
Water (Microbiology) Heterotrophic Plate Count (HPC) - Water (050) MIC-93-7020; modified from SM 9215 C SPREAD PLATE Heterotrophic Plate Count (HPC)	OSDWA †
Water (Organic) 1,4-Dioxane - Water (123) VOL-91-5015; modified from EPA 5030C and EPA 1624C GC/MS - PURGE AND TRAP, ISOTOPE DILUTION 1,4-Dioxane	
Water (Organic) Base Neutral Acid Extractables (BNA) - Water (073) ORG-91-5114; modified from MOE E3265 and EPA 625 and SW-846 3510C and SW-846 8270D GC/MS - EXTRACTION 1-Methylnaphthalene 1,1-Biphenyl 1,2,4-Trichlorobenzene 2-Chloronaphthalene	OSDWA †

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2-Chlorophenol
2-Methyl-4,6-dinitrophenol
2-Methylnaphthalene
2-Nitrophenol
2,3,4,6-tetrachlorophenol
2,4-dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,4,5-Trichlorophenol
2,4,6-trichlorophenol
2,6-Dichlorophenol
2,6-Dinitrotoluene
3,3-Dichlorobenzidine
4-Bromophenylphenyl ether
4-Chloro-3-methyl phenol
4-Chlorophenoxyphenyl ether
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Azobenzene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (b+i) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl) phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Di-n-butyl phthalate
Di-n-octyl phthalate
Dibenzo (a,h) anthracene
Diethyl phthalate
Dimethyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3 - cd) pyrene
Isophorone
m,p-Cresol
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine + Diphenylamine
Naphthalene
Nitrobenzene

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o-Cresol
p-Chloroaniline
Pentachlorophenol
Phenanthrene
Phenol
Pyrene

Water (Organic)

BTEX - Water (137)
VOL-91-5010; EPA SW-846 5030B and EPA SW-846 8260C
GC/MS - PURGE AND TRAP
Benzene
Ethylbenzene
m/p-xylene
o-xylene
Toluene

Water (Organic)

Carbamates and Urea Pesticides - Water (013)
ORG-91-5101; modified from EPA 632 and EPA 531.1 and MOE E3158
HPLC - EXTRACTION
Aldicarb
Bendiocarb
Carbaryl
Carbofuran
Diuron
Temephos
Triallate

OSDWA †

Water (Organic)

Diquat and Paraquat - Water (012)
ORG-91-5102; modified from EPA 549.2
HPLC - EXTRACTION
Diquat
Paraquat

OSDWA †

Water (Organic)

Glycols - Water (142)
ORG-5116; modified from EPA 8015C
GC/FID
Diethylene glycol
Ethylene glycol
Propylene glycol

Water (Organic)

Haloacetic Acids (HAA) - Water (143)
ORG-91-5121; modified from EPA 552.3
GC/ECD
Bromochloroacetic acid
Dibromoacetic acid
Dichloroacetic acid
Monobromoacetic acid (MBAA)
Monochloroacetic acid (MCAA)
Total Haloacetic Acids (Calculation)
Trichloroacetic acid (TCAA)

OSDWA †

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Water (Organic)

Herbicides - Water (034)

ORG-91-5110; modified from EPA SW-846 8151A and EPA 515.1

GC/ECD - EXTRACTION

2,3,4,6-tetrachlorophenol

2,4-dichlorophenol

2,4-dichlorophenoxyacetic acid

2,4-DP

2,4,5-Trichlorophenol

2,4,5-trichlorophenoxyacetic acid

2,4,6-trichlorophenol

Bromoxynil

Dicamba

Dichloroprop

Diclofop-methyl (as free acid)

Dinoseb

MCPA

MCPP

Pentachlorophenol

Picloram

Silvex

Water (Organic)

Neutral Chlorinated Extractables - Water (106)

ORG-91-5111; modified from EPA SW-846 3541 and EPA SW-846 8121

GC/ECD - EXTRACTION

1,2,3-Trichlorobenzene

1,2,3,4-Tetrachlorobenzene

1,2,3,5-Tetrachlorobenzene

1,2,4-Trichlorobenzene

1,2,4,5-Tetrachlorobenzene

1,3,5-Trichlorobenzene

2,4,5-Trichlorotoluene

Hexachlorobenzene

Hexachlorobutadiene

Hexachloroethane

Pentachlorobenzene

Water (Organic)

Nonylphenol and Nonylphenol Ethoxylates - Water (McAdam Road) (147)

ORG-250-5117; modified from ASTM D7485-16

UHPLC/MS

Bisphenol (BPA)

Nonylphenol Diethoxylate (NP2EO)

Nonylphenol Monoethoxylates (NP1EO)

Octylphenol (OP)

p-Nonylphenol technical (NP)

Water (Organic)

Organochlorine Pesticides (OC) and Polychlorinated Biphenyls (PCB) - Water (033)

ORG-91-5112; modified from EPA SW-846 3510C and EPA SW-846 8081B and EPA SW-846 8082A

GC/ECD - EXTRACTION

A -BHC

a - Chlordane

Aldrin

Aroclor 1016

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Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268
beta-BHC
delta-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Endrin Ketone
γ - Chlordane
Heptachlor
Heptachlor Epoxide
Hexachlorobenzene
Hexachlorobutadiene
Hexachloroethane
Lindane (γ-BHC)
Mirex
o,p' - DDT
o,p-DDD
op'-DDE
Oxychlordane
p,p' - DDT
p,p' Methoxychlor
pp'-DDD
pp'-DDE
Total PCB

Water (Organic)

OSDWA †

Organophosphorus (OP) Pesticides - Water (008)

ORG-91-5103; modified from EPA SW-846 3510C and EPA SW-846 8141A and EPA SW-846 8270D

GC/MS - EXTRACTION

Azinphos-methyl

Chlorpyrifos (ethyl)

Diazinon

Dimethoate

Malathion

Parathion (ethyl)

Phorate

Terbufos

Water (Organic)

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (063)

VOL-91-5010; modified from MOE E3421

GC/FID - PURGE AND TRAP

F1: C6-C10

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Water (Organic) Petroleum Hydrocarbons (PHC) - Water (064) VOL-91-5010; modified from MOE E3421 GC/FID - EXTRACTION F2: C10-C16 F3: C16-C34 F4: C34-C50	OSDWA †
Water (Organic) Petroleum Hydrocarbons (PHC) - Water (068) VOL-91-5010; modified from MOE E3421 GRAVIMETRIC F4G: Gravimetric	OSDWA †
Water (Organic) Polycyclic Aromatic Hydrocarbons (PAH) - Water (007) ORG-91-5105; modified from EPA SW-846 3510C and EPA SW-846 8270D GC/MS - EXTRACTION 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acridine Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene 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	OSDWA †
Water (Organic) Total Extractable Hydrocarbons (TEH) - Water (015) VOL-91-5005; modified from EPA SW-846 3510C and EPA SW-846 8015C GC/FID - EXTRACTION C10-C24 (Diesel)	
Water (Organic) Total Purgeable Hydrocarbons (TPH) - Water (011) VOL-91-5003; modified from EPA SW-846 5030B and EPA SW-846 8015C GC/FID - PURGE AND TRAP Total Purgeable Hydrocarbons (Gas/Diesel)	
Water (Organic) Triazine Pesticides - Water (009) ORG-91-5104; modified from EPA SW-846 3510C and EPA SW-846 8270D and MOE E3121 GC/MS- EXTRACTION Alachlor	OSDWA †

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Atrazine
Cyanazine
De-ethylated atrazine
Metolachlor
Metribuzin
Prometryne
Simazine
Trifluralin

Water (Organic)

OSDWA †

Volatile Organic Compounds (VOC) - Water (006)

VOL-91-5001; modified from EPA SW-846 5030B and EPA SW-846 8260D

GC/MS - PURGE AND TRAP

1,1-Dichloroethane
1,1-dichloroethylene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2- TRICHLORO-1,2,2,-TRIFLUOROETHANE (FREON 113)
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-dichlorobenzene
1,2-dichloroethane
1,2-Dichloropropane
1,2-DICHLOROTETRAFLUOROETHANE (FREON 114)
1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-dichlorobenzene
2-Hexanone
2,2-DICHLORO-1,1,1-TRIFLUOROETHANE (Freon 123)
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
CHLORODIFLUOROMETHANE (FREON 22)
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichlorodifluoromethane (Freon 12)
DICHLOROFLUOROMETHANE (FREON 21)
Dichloromethane
Ethylbenzene
Ethylene Dibromide
m/p-xylene
Methyl Ethyl Ketone
Methyl isobutyl Ketone
Methyl t-butyl ether
n-Hexane

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o-xylene
Styrene
Tetrachloroethylene
Toluene
Total Trihalomethanes (Calculation)
Total Xylenes (Calculation)
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride

Water (Organic)

Volatile Organic Compounds (VOC) - Water (149)

VOL-91-5017; modified from EPA 8260

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-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2-Hexanone
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Hexane
m/p-xylene
Methyl ethyl ketone
Methyl isobutyl ketone
Methyl t-butyl ether
o-xylene
Styrene

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Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride

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