



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 3149

Laboratory Name: ALS Environmental (Waterloo)

Parent Institution: ALS Canada Ltd.

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Standard: Conforms with requirements of ISO/IEC 17025

Clients Served: All Interested Parties

Revised On: August 7, 2019

Valid To: April 2, 2021

Scope of Accreditation

Air (Inorganic)

Fixed Gases - Air (180)

WT-TM-1703; modified from ASTM D1946-90 and EPA 3C

GC/FID & TCD

Carbon dioxide

Carbon monoxide

Methane

Nitrogen

Oxygen

Air (Organic)

Reduced Sulphur Compounds - Air (201)

WT-TM-1704; modified from ASTM 5504-12

GC-SCD - PASSIVATE CANISTER

2-Ethylthiophene

2-Methylthiophene

2,5-Dimethylthiophene

3-Methylthiophene

Butyl(t) mercaptan

Carbon disulfide

Carbonyl sulfide

Diethyl disulfide

Diethyl sulfide

Dimethyl disulfide

Dimethyl sulfide

Ethyl mercaptan

Ethyl methyl sulfide

Hydrogen Sulfide

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Isobutyl mercaptan
Isopropyl mercaptan
Methyl mercaptan
n-Butyl mercaptan
Propyl mercaptan
sec-Butyl mercaptan
Tetrahydrothiophene
Thiophene

Air (Organic)

Volatile Organic Compounds (VOC) - Air (202)

WT-TM-1701; modified from EPA TO-15
GC-MS - PASSIVATE CANISTER

1,1-Dichloroethane
1,1-Dichloroethene
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
1,2,3-Trimethylbenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3-Butadiene
1,3-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
1,4-Dioxane (p-dioxane)
2-Chlorotoluene
2-Ethyltoluene
2-Hexanone (MBK)
2-Methylbutane
2-Methylpentane
3-Methylhexane
3-Methylpentane
4-Ethyltoluene
4-Isopropyltoluene
Acetone
Acetonitrile
Acrolein
Acrylonitrile
Aliphatic >C10-C12
Aliphatic >C12-C16
Aliphatic C6-C8
Aliphatic >C8-C10
Allyl chloride
Aromatic >C10-C12
Aromatic >C10-C16
Aromatic C6-C8
Aromatic >C8-C10
Benzene

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Benzyl chloride
Bromodichloromethane
Bromoform
Bromomethane
Butane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodifluoromethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-dichloroethene
cis-1,3-Dichloropropene
Cyclohexane
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Ethanol
Ethyl acetate
Ethylbenzene
F1
F2
Freon 113
Freon 114
Hexachlorobutadiene
Isooctane
Isoprene
Isopropyl alcohol
Isopropylbenzene
m,p-Xylene
Methyl ethyl ketone (MEK)
Methyl isobutyl ketone (MIBK)
Methyl methacrylate
Methylene chloride
n-Decane
n-Heptane
n-Hexane
n-Pentane
n-Propylbenzene
Naphthalene
Nonane
o-Xylene
Octane
Propylene
Styrene
t-Butyl alcohol
t-Butyl methyl ether (MTBE)
Tetrachloroethylene
Tetrahydrofuran
Toluene
Total C>10-C12
Total C>12-C16

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Total C>8-C10
Total C6-C8
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl acetate
Vinyl bromide
Vinyl chloride

Air (Organic)

Volatile Organic Compounds (VOC) - Air (203)

WT-TM-1700; modified from EPA TO-17

GC-MS - SORBENT TUBE

1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
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
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3-Butadiene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
1,4-Dioxane (p-dioxane)
2-Chlorotoluene
2-Methylnaphthalene
2,2-Dichloropropane
4-Chlorotoluene
4-Ethyltoluene
4-Isopropyltoluene
4-Phenylcyclohexene
Acetone
Allyl chloride
Benzene
Benzyl chloride
Bromochloromethane
Bromodichloromethane
Bromoform
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
cis-1,2-dichloroethene
cis-1,3-Dichloropropene
Cyclohexane

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Decamethylcyclopentasiloxane
Decamethyltetrasiloxane
Decane
Dibromochloromethane
Dichlorodifluoromethane
Dodecamethylcyclohexasiloxane
Dodecamethylpentasiloxane
Ethyl acetate
Ethylbenzene
Heptane
Hexachloro-1,3-butadiene
Hexamethylcyclotrisiloxane
Hexamethyldisiloxane
Hexane
Isooctane
Isopropyl alcohol
m,p-Xylene
Methylene chloride
n-Butylbenzene
n-Propylbenzene
Naphthalene
Nonane
o-Xylene
Octamethylcyclotetrasiloxane
Octamethyltrisiloxane
Octane
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane
Vinyl chloride

Biosolids (Microbiology)

Escherichia coli (E. coli) - Biosolids (087)
WT-TM-1200; modified from ON MOECC E3433
MEMBRANE FILTRATION (mFC-BCIG)
Escherichia coli (E. coli)

Biosolids (Organic)

Nonylphenol and Nonylphenol Ethoxylates - Biosolids (165)
WT-TM-1521; modified from JOURNAL OF CHROMATOGRAPHY A, 849 (1999) 467-482
LC/MS - EXTRACTION
Bisphenol A
Nonylphenol Diethoxylate (NP2EO)
Nonylphenol Ethoxylates
Nonylphenol Monoethoxylates (NP1EO)
Nonylphenols
Octylphenol
Octylphenol Diethoxylate

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Octylphenol Monoethoxylate

Serum (Organic)

Perfluorinated Compounds (PFC) - Biomaterials [Serum] (196)

WT-TM-1565; J. ANALY. TOXICOL. 34: 400-410

LC-MS/MS

Perfluoro Decanesulfonate

Perfluoro Dodecanoic Acid

Perfluoro Hexanesulfonate

Perfluoro Nonanoic Acid

Perfluoro Octanesulfonate

Perfluoro Octanoic Acid

Perfluoro Tetradecanoic Acid

Perfluoro Undecanoic Acid

Soil

Particle Size Analysis (PSA) - Solids [Soil] (156)

WT-TM-1034; modified from SOIL SAMPLING & METHODS OF ANALYSIS CAN. SOCIETY OF SOIL SCIENCE (1993)

SEIVE

Particle Size

Soil

Perchlorate and Bromate - Solids [Soil] (176)

WT-TM-1503; modified from EPA 6850

LC-MS/MS

Bromate

Perchlorate

Soil

Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) - Solids [Soil] (175)

WT-TM-1557; modified from ON MOECC E3506

LC-MS/MS

10:2 Fluorotelomer sulfonic acid (10:2 FTS)

4:2 Fluorotelomer sulfonic acid (4:2 FTS)

6:2 Fluorotelomer sulfonic acid (6:2 FTS)

8:2 Fluorotelomer sulfonic acid (8:2 FTS)

N-Ethyl perfluorooctane sulfonamide (EtFOSA)

N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)

N-Ethyl perfluorooctanesulfonamidoethanol (EtFOSE)

N-Methyl perfluorooctane sulfonamide (MeFOSA)

N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)

N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)

Perfluorobutane sulfonic acid (PFBs)

Perfluorobutanoic acid (PFBA)

Perfluorodecanesulfonate (PFDS)

Perfluorodecanoic acid (PFDA)

Perfluorododecanoic acid (PFDoA)

Perfluoroheptane sulfonic acid (PFHpS)

Perfluoroheptanoic acid (PFHpA)

Perfluorohexane sulfonic acid (PFHxS)

Perfluorohexanoic acid (PFHxA)

Perfluorononanoic acid (PFNA)

Perfluorooctane sulfonamide (PFOSA)

Perfluorooctane sulfonic acid (PFOS)

Perfluorooctanoic acid (PFOA)

Perfluoropentane sulfonic acid (PFPeS)

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Perfluoropentanoic acid (PFPeA)
Perfluorotetradecanoic acid (PFTeDA)
Perfluorotridecanoic acid (PFTrDA)
Perfluoroundecanoic acid (PFUndA)

Soil (Inorganic)

Hexavalent Chromium - Solids [Soil] (158)
WT-TM-1035; modified from EPA 1636 and EPA 3060 and EPA 7199
ION CHROMATOGRAPHY
Chromium (Hexavalent)

Soil (Inorganic)

Phenols - Solids [Soil] (170)
WT-TM-1027; modified from EPA 9066
COLORIMETRIC
Total Phenolics

Soil (Organic)

Pesticides - Soil (208)
WT-TM-1589; modified from ON MOECC E3501
LC-MS/MS
Atrazine
Atrazine-2-hydroxy
Atrazine-desethyl
Atrazine-desethyl-desisopropyl
Atrazine-desisopropyl
Azoxystrobin
Boscalid
Bromacil
Carbaryl
Chlorantraniliprole
DCPMU
Diuron
Fludioxonil
Imidacloprid
Linuron
Metalaxyl
Myclobutanil
Propiconazole
Pyraclostrobin
Simazine
Tebuthiuron
Trifloxystrobin
Triticonazole

Soil (Organic)

Phenoxy Acid Herbicides - Soil (210)
WT-TM-1591; modified from ON MOECC E3552
LC-MS/MS
2,4-D
2,4-DB
2,4,5-T
2,4,5-TP
Bromoxynil
Clopyralid
Dicamba
Dichlorprop

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Dinoseb
MCPA
MCPB
Mecoprop
Picloram
Triclopyr

Solids (Inorganic)

Ammonia - Solids [Soil] (096)
WT-TM-1013; modified from EPA 350.1
COLORIMETRIC
Ammonia-N

Solids (Inorganic)

Anions - Solids (136)
NA-TM-1001, NA-TM-1700; modified from EPA 1311 (PREPARATION) and EPA 300.1 (ANALYSIS)
ION CHROMATOGRAPHY - TCLP
Fluoride
Nitrate
Nitrite

Solids (Inorganic)

Anions - Solids [Sludge, Soil] (041)
NA-TM-1001, WT-TP-2013; modified from EPA 300.1
ION CHROMATOGRAPHY
Bromide
Chloride
Fluoride
Nitrate-N
Nitrite
Sulphate

Solids (Inorganic)

Conductivity - Solids [Soil] (109)
WT-TM-1010; modified from SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Solids (Inorganic)

Cyanide - Solids [Soil] (079)
NA-TM-1003, WT-TP-2011; modified from ASTM D7237-15A and EPA 9013A and ISO 14403 and SM 4500-CN- I
AUTO COLOR - DIGESTION
Cyanide, Free
Cyanide (SAD)
Cyanide (WAD)

Solids (Inorganic)

Hot Water Soluble Boron - Solids [Soil] (186)
NA-TP-2010, WT-TM-1026; modified from EPA 6010C and SOIL SAMPLING & METHODS OF ANALYSIS,
CARTER, 2008
ICP/OES
Boron (Hot Water Soluble)

Solids (Inorganic)

Mercury - Solids (139)
NA-TM-1005, NA-TM-1700; modified from EPA 1311 (PREPARATION) and EPA 1631E (ANALYSIS)
COLD VAPOUR AA - SPECTROMETRIC - TCLP
Mercury

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Solids (Inorganic)

Mercury - Solids [Compost, Sludge, Soil] (050)
NA-TM-1005, NA-TP-2004; modified from EPA 1631E and EPA 200.2
CVAAS
Mercury

Solids (Inorganic)

Metals - Solids (138)
NA-TM-1700, NA-TM-1002; modified from EPA 1311 (PREPARATION) and EPA 6020B (ANALYSIS)
ICP/MS - TCLP
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Iron
Lead
Lithium
Magnesium
Manganese
Potassium
Selenium
Silver
Sodium
Strontium
Sulphur
Thallium
Tin
Uranium
Zinc
Zirconium

Solids (Inorganic)

Metals - Solids [Compost, Sediment, Sludge, Soil] (006)
NA-TM-1002, NA-TP-2004; modified from EPA 200.2 and EPA 6020B
ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium

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Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silver
Sodium
Strontium
Sulphur
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Solids (Inorganic)

Metals - Solids [Soil] (187)

WT-TM-1026, WT-TP-1012; modified from EPA 6010C and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2ND EDITION, 2008, CHAP. 15.2.2

ICP/OES - FIXED RATIO EXTRACTION

Calcium
Magnesium
Sodium

Solids (Inorganic)

Moisture - Solids [Soil] (188)

NA-TM-1200; REFERENCE METHOD FOR THE CANADA-WIDE STANDARD FOR PERTROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD & ADDENDUM. CCME DECEMBER 2000. NO. 1310
GRAVIMETRIC

Percent Moisture

Solids (Inorganic)

Oil and Grease - Solids [Sludge, Soil] (031)

WT-TM-1100; modified from EPA 8015 and SM 5520 B and SM 5520 D and SM 5520 E and SM 5520 F
GRAVIMETRIC - EXTRACTION

Mineral Oil and Grease
Total Oil and Grease (Solvent Extractables)

Solids (Inorganic)

pH - Solids [Soil] (107)

WT-TM-1001; modified from SM 4500-H+ B
pH METER

pH

Solids (Inorganic)

Solids - Solids [Compost, Sediment, Sludge, Soil] (028)

WT-TM-1011; modified from SM 2540 B and SM 2540 E and SM 2540 G
GRAVIMETRIC

Fixed Solids
Total Solids
Volatile Solids

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Solids (Inorganic)

Total and Free Cyanide - Solids (140)

NA-TM-1700, NA-TM-1003; modified from ASTM D7237-15A (ANALYSIS) and EPA 1311 (PREPARATION) and ISO 14403 (ANALYSIS) and SM 4500-CN- I (ANALYSIS)

COLORIMETRIC - TCLP

Cyanide (SAD)

Cyanide (WAD)

Solids (Inorganic)

Total Organic Carbon (TOC) - Solids [Soil] (034)

WT-TM-1005; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER METHOD 21.3.2

WET OXIDATION-REDOX

Organic Carbon

Solids (Organic)

1,4-Dioxane - Solids [Soil] (173)

WT-TM-1406; modified from EPA 5021A and EPA 8260C

GC/MS - HEADSPACE

1,4-Dioxane (p-dioxane)

Solids (Organic)

Alkanolamines - Solids [Soil] (217)

WT-TM-1574; modified from ASTM D7599

LC-MS/MS

Diethanolamine (DEA)

Diisopropanolamine (DIPA)

Methyldiethanolamine (MDEA)

Monoethanolamine (MEA)

Monoisopropanolamine

Triethanolamine (TEA)

Solids (Organic)

Aminopyralid - Solids [Soil] (223)

WT-TM-1578; IN-HOUSE

LC/MS

Aminopyralid

Solids (Organic)

Base Neutral Acid Extractables (BNA) - Solids (141)

NA-TM-1700, WT-TM-1300, WT-TM-1101; modified from EPA 1311 (PREPARATION) and EPA 8270 (ANALYSIS)

GC/MS - TCLP

2-Methylphenol (o-Cresol)

2,3,4,6-Tetrachlorophenol

2,4-Dichlorophenol

2,4-Dinitrotoluene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

3/4-Methylphenol

Benzo(a)pyrene

Hexachlorobenzene

Hexachlorobutadiene

Hexachloroethane

Nitrobenzene

Pentachlorophenol

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Solids (Organic)

Base Neutral Acid Extractables (BNA) - Solids [Sediment, Sludge, Soil] (016)

WT-TM-1101/WT-TM-1300; modified from EPA 3570C and EPA 8270D

GC/MS - EXTRACTION

1-Chloronaphthalene
1-Methylnaphthalene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Nitrophenol
2,3,4-Trichlorophenol
2,3,4,5-Tetrachlorophenol
2,3,4,6-Tetrachlorophenol
2,3,5-Trichlorophenol
2,3,5,6-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'-Dichlorobenzidene
4-Bromophenyl phenyl ether
4-Chloro-3-methyl phenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Nitrophenol
4,6-Dinitro-o-cresol
5-Nitroacenaphthylene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Benzylbutyl phthalate
Biphenyl
Bis(2-chlorethoxy)methane
Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl) phthalate
Camphene
Chrysene
Di-n-butyl phthalate

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Di-n-octyl phthalate
Dibenzo (a,h) anthracene
Diethyl phthalate
Dimethyl phthalate
Diphenyl ether
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3 - cd) pyrene
Indole
Isophorone
m,p-Cresol
N-Nitrosodi-n-propylamine
Naphthalene
Nitrobenzene
o-Cresol
p-Chloroaniline
Pentachlorophenol
Perylene
Phenanthrene
Phenol
Pyrene
Quinoline
Total Diphenylamine

Solids (Organic)

Energetics - Solids [Soil] (195)

WT-TM-1608; modified from EPA 8330A and EPA 8330B

HPLC/UV - EXTRACTION

1,3-Dinitrobenzene (1,3-DNB)
1,3,5-Trinitrobenzene (1,3,5-TNB)
2-Amino-4,6-dinitrotoluene (2-A-4,6-DNT)
2-Nitrotoluene (2-NT)
2,4-Dinitrotoluene (2,4-DNT)
2,4,6-Trinitrotoluene (2,4,6-TNT)
2,6-Dinitrotoluene (2,6-DNT)
3-Nitrotoluene (3-NT)
3,5-Dinitroaniline (3,5-DNA)
4-Amino-2,6-dinitrotoluene (4-A-DNT)
4-Nitrotoluene (4-NT)
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
Methyl-2,4,6-trinitrophenylnitramine
Nitrobenzene
Nitroglycerin
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)
Pentaerythritol tetranitrate (PETN)

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Solids (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Solids [Soil] (110)

WT-TM-1406; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 5021A and EPA 8260C

GC/FID - HEADSPACE

F1: C6-C10

Solids (Organic)

Organochlorine (OC) Pesticides - Solids [Soil] (020)

WT-TM-1102/WT-TM-1302; modified from EPA 3570C and EPA 8270D

GC/MS - EXTRACTION

Aldrin

alpha-BHC

alpha-Chlordane

beta-BHC

Chlordane

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan Sulfate

Endrin

Endrin Aldehyde

gamma-Chlordane

Heptachlor

Heptachlor epoxide

Lindane

Mirex

o,p'-DDD

o,p'-DDE

o,p'-DDT

Oxychlordane

p,p'-DDD

p,p'-DDE

p,p'-DDT

p,p'-Methoxychlor

Solids (Organic)

Pesticides - Solids [Soil] (150)

WT-TM-1107, WT-TM-1302; modified from EPA 3570C and EPA 8270

GC/MS - EXTRACTION

Alachlor

Ametryn

Atrazine

Atrazine, desethyl

Azinphos-methyl

Bendiocarb

Bromoxynil

Carbaryl

Carbofuran

Chlorpyrifos

Cyanazine

Diazinon

Diclofop-methyl

Dimethoate

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Malathion
Metolachlor
Metribuzin
Parathion
Phorate
Prometon
Prometryne
Propazine
Simazine
Temephos
Terbufos
Terbutryn
Triallate
Trifluralin

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (065)
NA-TM-1100, WT-TM-1307; 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] (071)
NA-TM-1100; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC
F4: Gravimetric

Solids (Organic)

Phenols - Solids [Soil] (204)
WT-TM-1593; modified from EPA 600/SR-97/027
LC-MS/MS
Phenol

Solids (Organic)

Polyaromatic Hydrocarbons (PAH) - Solids [Soil] (221)
WT-TM-1103, WT-TM-1304; modified from EPA 3570 and EPA 8270E
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

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Perylene
Phenanthrene
Pyrene
Quinoline

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Solids (137)
NA-TM-1700, WT-TM-1301, WT-TM-1105; modified from EPA 1311 (PREPARATION) and EPA 8270 (ANALYSIS)

GC/MS - TCLP
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Solids [Soil] (018)
WT-TM-1105/WT-TM-1301; modified from EPA 3570C and EPA 8270D

GC/MS - EXTRACTION
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB

Solids (Organic)

Pyridine - Solids (167)
WT-TM-1600, NA-TM-1700; modified from EPA 1311 (PREPARATION) and EPA 8260B (ANALYSIS)

GC/MS
Pyridine

Solids (Organic)

Sulfolane - Solids [Soil] (206)
WT-TM-1572; IN-HOUSE

LC-MS/MS
Sulfolane

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids (182)
WT-TM-1017, WT-TM-1406; modified from EPA 1311 (PREPARATION) and EPA 8260 (ANALYSIS)

GC/MS - HEADSPACE - TCLP
1,1-Dichloroethylene
1,2-Dichlorobenzene
1,4-Dichlorobenzene
Benzene
Carbon tetrachloride
Chloroform
Dichloromethane
Ethylbenzene
m,p-Xylene
Methyl ethyl ketone
o-Xylene
Tetrachloroethylene
Toluene

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Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (112)

WT-TM-1406; 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-Dibromomethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2-Hexanone (MBK)
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexane
m/p-xylene
Methyl ethyl ketone
Methyl isobutyl ketone
Methyl t-butyl ether
Methylene chloride
o-xylene
Styrene
Tetrachloroethane
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

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Tissue (Organic)

Perfluorinated Compounds (PFC) - Tissue (198)

WT-TM-1557; modified from ANALYTICA CHIMICA ACTA (2008) 619:221-230

LC-MS/MS

2-(N-ethylperfluoro-1-Octanesulfonamide)-EtOH (N-EtFOSE)

2-(N-methylperfluoro-1-Octanesulfonamide)-EtOH (N-MeFOSE)

N-Ethylperfluoro-1-Octanesulfonamide (N-EtFOSA)

N-Methylperfluoro-1-Octanesulfonamide (N-MeFOSE)

Perfluoro Decanesulfonate (PFDS)

Perfluoro Heptanesulfonate (PFHpS)

Perfluoro Octanesulfonamide (PFOSA)

Perfluorobutanesulfonate (PFBS)

Perfluorobutanoic acid (PFBA)

Perfluorodecanoic acid (PFDA)

Perfluorodecanoic acid (PFDA)

Perfluorododecanoic acid (PFDoA)

Perfluoroheptanoic acid (PFHpA)

Perfluorohexanesulfonate (PFHxS)

Perfluorohexanoic Acid (PFHxA)

Perfluorononanoic acid (PFNA)

Perfluorooctane sulfonate (PFOS)

Perfluorooctanoic acid (PFOA)

Perfluoropentanoic acid (PFPeA)

Perfluorotetradecanoic acid (PFTeDA)

Perfluorotridecanoic acid (PFTrDA)

Water (Inorganic)

OSDWA †

Alkalinity - Water (070)

WT-TM-1012; modified from SM 2320 B

MANUAL TITRATION

Alkalinity (pH 4.5)

Water (Inorganic)

OSDWA †

Alkalinity - Water (094)

WT-TM-1032; modified from EPA 310.2

COLORIMETRIC

Alkalinity (pH 4.5)

Water (Inorganic)

OSDWA †

Ammonia - Water (095)

WT-TM-1013; modified from EPA 350.1

COLORIMETRIC

Ammonia

Ammonia+Ammonium

Water (Inorganic)

Ammonia - Water (212)

WT-TM-1043; JOURNAL OF ENVIRONMENTAL MONITORING (2005) SECTION 7, P. 37-42

FLUORIMETRY

Ammonia

Water (Inorganic)

OSDWA †

Anions - Water [Wastewater] (003)

NA-TM-1001; modified from EPA 300.1

ION CHROMATOGRAPHY

Bromide

Chloride

Fluoride

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Nitrate	
Nitrite	
Sulfate	
Water (Inorganic)	OSDWA †
Biochemical Oxygen Demand (BOD) - Water (001)	
WT-TM-1002; modified from SM 5210 B	
D.O. METER	
BOD (5 day)	
CBOD (5 day)	
Water (Inorganic)	OSDWA †
Carbon - Water (047)	
WT-TM-1024; modified from SM 5310 B	
IR - COMBUSTION	
Organic Carbon	
Water (Inorganic)	OSDWA †
Chemical Oxygen Demand (COD) - Water (035)	
WT-TM-1006; modified from SM 5220 D	
REFLUX - COLORIMETRIC	
COD	
Water (Inorganic)	OSDWA †
Chlorate and Chlorite - Water (211)	
WT-TM-1044; EPA 300.1	
ION CHROMATOGRAPHY	
Chlorate	
Chlorite	
Water (Inorganic)	OSDWA †
Chlorine - Water (074)	
WT-TM-1021; modified from SM 4500-CL G	
COLORIMETRIC	
Free Chlorine	
Total Chlorine	
Water (Inorganic)	OSDWA †
Colour - Water (097)	
WT-TM-1014; modified from SM 2120 C	
COLORIMETRIC	
Apparent Colour	
True Colour	
Water (Inorganic)	OSDWA †
Conductivity - Water (048)	
WT-TM-1010; modified from EPA 9050A and SM 2510 B	
CONDUCTIVITY METER	
Conductivity (25°C)	
Water (Inorganic)	OSDWA †
Conductivity - Water (108)	
WT-TM-1028; modified from SM 2510 B	
PC TITRATE	
Conductivity (25°C)	
Water (Inorganic)	OSDWA †
Cyanate - Water (161)	
WT-TM-1036; modified from SM 4500-CN- L and SM 4500-NH3 D	
SELECTIVE ION ELECTRODE	
Cyanate	

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Water (Inorganic)

OSDWA †

Cyanide - Water [Wastewater] (004)

NA-TM-1003; modified from ASTM D7237-10 and ISO 14403 and SM 4500-CN- I

COLOR - DISTILLATION

Cyanide, Free

Cyanide (SAD)

Cyanide (WAD)

Water (Inorganic)

OSDWA †

Dissolved Metals - Water (005)

NA-TM-1002, NA-TP-2002; modified from EPA 3030B and EPA 6020B

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cesium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silicon

Silver

Sodium

Strontium

Sulphur

Tellurium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Zinc

Zirconium

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Water (Inorganic) Hexavalent Chromium - Water (157) WT-TM-1035; modified from EPA 3060A and EPA 7199 ION CHROMATOGRAPHY Hexavalent Chromium	OSDWA †
Water (Inorganic) Hydrogen Sulphide - Water (012) WT-TM-1003; modified from SM 4500-S2- D and SM 4500-S2- E and SM 4500-S2- F COLORIMETRIC Sulphide	OSDWA †
Water (Inorganic) Mercury - Water [Wastewater] (049) NA-TM-1005; modified from EPA 1631E COLD VAPOUR AA - SPECTROMETRIC Mercury	OSDWA †
Water (Inorganic) Oil and Grease - Water (033) WT-TM-1100; modified from EPA 1664 and SM 5520 B and SM 5520 D and SM 5520 E and SM 5520 F GRAVIMETRIC - EXTRACTION Mineral Oil and Grease Total Oil and Grease	OSDWA †
Water (Inorganic) Perchlorate - Water (168) WT-TM-1505; modified from EPA 6850 LC-MS/MS - EXTRACTION Perchlorate	OSDWA †
Water (Inorganic) Perchlorate and Bromate - Water (114) WT-TM-1503; modified from EPA 6850 LC-MS/MS - EXTRACTION Bromate Perchlorate	OSDWA †
Water (Inorganic) pH - Water (026) WT-TM-1001; modified from SM 4500-H+ B pH - METER pH	OSDWA †
Water (Inorganic) pH - Water (106) WT-TM-1028; modified from SM 4500-H+ B PC TITRATE pH	OSDWA †
Water (Inorganic) Phenols - Water (009) WT-TM-1027; modified from EPA 9066 COLORIMETRIC Total Phenolics	OSDWA †
Water (Inorganic) Phosphorus - Water (098) WT-TM-1025; modified from SM 4500-P B and SM 4500-P F COLORIMETRIC Phosphate	OSDWA †

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Water (Inorganic) Solids - Water (010) WT-TM-1011; modified from SM 2540 D and SM 2540 E GRAVIMETRIC Total Suspended Solids Volatile Suspended Solids	OSDWA †
Water (Inorganic) Solids - Water (056) WT-TM-1011/NA-TM-1004; modified from SM 2540 B and SM 2540 C and SM 2540 E GRAVIMETRIC Total Dissolved Solids Total Solids Volatile Solids	OSDWA †
Water (Inorganic) Tannin and Lignin - Water (181) WT-TM-1015; modified from SM 5550 B COLORIMETRIC - DISCRETE ANALYZER Tannin and Lignin	OSDWA †
Water (Inorganic) Total Kjeldahl Nitrogen (TKN) - Water (099) WT-TM-1041; modified from SM 4500-NORG D COLORIMETRIC - DIGESTION Total Kjeldahl Nitrogen	OSDWA †
Water (Inorganic) Total Metals - Water [Wastewater] (032) NA-TM-1002, NA-TP-2001; modified from EPA 200.2 and EPA 6020B ICP/MS Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Cesium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Phosphorus Potassium Rubidium Selenium Silicon Silver	OSDWA †

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Sodium
Strontium
Sulphur
Tellurium
Thallium
Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic) OSDWA †

Total Phosphorus - Water (011)
WT-TM-1025; modified from SM 4500-P E and SM 4500-P F
AUTO COLOR - DIGESTION
Total Phosphorus

Water (Inorganic) OSDWA †

Turbidity - Water (024)
WT-TM-1004; modified from SM 2130 B
TURBIDIMETRIC
Turbidity

Water (Inorganic)

UV Transmittance - Water (190)
WT-TM-1033; modified from SM 5910
COLORIMETRIC
Transmittance, UV (254nm)

Water (Inorganic)

Volatile Organic Acids - Water (191)
WT-TM-1031; modified from SM 5560 C
DISTILLATION - TITRATION
Volatile Organic Acids (As Acetic)

Water (Microbiology) OSDWA †

Coliforms - Water (183)
NA-TM-1300; modified from SM 9215 E and SM 9223 B
MOST PROBABLE NUMBER (QUANTI-TRAY)
Escherichia coli
Total Coliforms

Water (Microbiology) OSDWA †

Escherichia coli (E. coli) - Water (052)
WT-TM-1200; modified from ON MOECC COMPARISON EVALUATION and SM 9222 D
MEMBRANE FILTRATION (mFC-BCIG)
Escherichia coli

Water (Microbiology) OSDWA †

Fecal (Thermotolerant) Coliforms - Water (051)
WT-TM-1200; modified from SM 9222 D
MEMBRANE FILTRATION (m FC)
Fecal (Thermotolerant) Coliforms

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Water (Microbiology) Heterotrophic Plate Count (HPC) - Water (030) WT-TM-1200; modified from SM 9215 D MEMBRANE FILTRATION Heterotrophic Plate Count (HPC)	OSDWA †
Water (Microbiology) Pseudomonas aeruginosa - Water (091) WT-TM-1200; modified from SM 9213 E MEMBRANE FILTRATION (mPAC) Pseudomonas aeruginosa	OSDWA †
Water (Microbiology) Total Coliforms - Water (002) WT-TM-1200; modified from SM 9222 B MEMBRANE FILTRATION (m Endo) Background Counts Total Coliforms	OSDWA †
Water (Organic) 1,4-Dioxane - Water (172) WT-TM-1406; modified from EPA 5021A and EPA 8260C GC/MS - HEADSPACE 1,4-Dioxane (p-dioxane)	OSDWA †
Water (Organic) Aldicarb and Diuron - Water (135) WT-TM-1502; modified from ON MOECC E3501 LC-MS/MS - EXTRACTION Aldicarb Diuron	OSDWA †
Water (Organic) Alkanolamines - Water (216) WT-TM-1574; modified from ASTM D7599 LC-MS/MS Diethanolamine (DEA) Diisopropanolamine (DIPA) Methyldiethanolamine (MDEA) Monoethanolamine (MEA) Monoisopropanolamine Triethanolamine (TEA)	OSDWA †
Water (Organic) Base Neutral Acid Extractables (BNA) - Water [Wastewater] (015) WT-TM-1101/WT-TM-1300; modified from EPA 3510C and EPA 8270 GC/MS - EXTRACTION 1-Chloronaphthalene 1-Methylnaphthalene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,3-Dichlorobenzene 2-Chloronaphthalene 2-Chlorophenol 2-Methylnaphthalene 2-Nitrophenol 2,3,4-Trichlorophenol 2,3,4,5-Tetrachlorophenol	OSDWA †

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2,3,4,6-tetrachlorophenol
2,3,5-Trichlorophenol
2,3,5,6-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'-Dichlorobenzidene
4-Bromophenyl phenyl ether
4-Chloro-3-methyl phenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Nitrophenol
4,6-Dinitro-o-cresol
5-Nitroacenaphthylene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Benzylbutyl phthalate
Biphenyl
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl) phthalate
Camphene
Chrysene
Di-n-butyl phthalate
Di-n-octyl phthalate
Dibenzo (a,h) anthracene
Diethyl phthalate
Dimethyl phthalate
Diphenyl ether
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3 - cd) pyrene
Indole
Isophorone
m,p-Cresol
N-Nitrosodi-n-propylamine

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Naphthalene
Nitrobenzene
o-Cresol
p-Chloroaniline
Pentachlorophenol
Perylene
Phenanthrene
Phenol
Pyrene
Quinoline
Total Diphenylamine

Water (Organic)

OSDWA †

Diquat and Paraquat - Water (134)
WT-TM-1506; modified from ON MOECC E3503
LC-MS/MS - EXTRACTION
Diquat
Paraquat

Water (Organic)

Energetics - Water (194)
WT-TM-1608; modified from EPA 8330A and EPA 8330B
HPLC/UV - EXTRACTION
1,3-Dinitrobenzene (1,3-DNB)
1,3,5-Trinitrobenzene (1,3,5-TNB)
2-Amino-4,6-dinitrotoluene (2-A-4,6-DNT)
2-Nitrotoluene (2-NT)
2,4-Dinitrotoluene (2,4-DNT)
2,4,6-Trinitrotoluene (2,4,6-TNT)
2,6-Dinitrotoluene (2,6-DNT)
3-Nitrotoluene (3-NT)
3,5-Dinitroaniline (3,5-DNA)
4-Amino-2,6-dinitrotoluene (4-A-DNT)
4-Nitrotoluene (4-NT)
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
Methyl-2,4,6-trinitrophenylnitramine
Nitrobenzene
Nitroglycerin
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)
Pentaerythritol tetranitrate (PETN)

Water (Organic)

OSDWA †

Formaldehyde - Water (162)
WT-TM-1603; modified from EPA 556.1
GC/ECD
Formaldehyde

Water (Organic)

OSDWA †

Glyphosate and Aminomethylphosphonic acid (AMPA) - Water (133)
WT-TM-1504; modified from ON MOECC E3500
LC-MS/MS - EXTRACTION
Aminomethylphosphonic acid (AMPA)
Glyphosate

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Water (Organic) Haloacetic Acids (HAA) - Water (163) WT-TM-1604; modified from EPA 552.3 GC/ECD Bromochloroacetic acid Bromodichloroacetic acid Chlorodibromoacetic acid Dalapon (2,2-Dichloropropionic Acid) Dibromoacetic acid Dichloroacetic acid Monobromoacetic acid Monochloroacetic acid Tribromoacetic acid Trichloroacetic acid	OSDWA †
Water (Organic) Hydrocarbons - Water (062) WT-TM-1602; modified from EPA REGION 1, 2002 GC/FID - HEADSPACE Ethane Ethene Methane	OSDWA †
Water (Organic) Neonicotinoids - Water (200) WT-TM-1569; modified from ON MOECC E3544 LC-MS/MS Acetamiprid Clothianidin Imidacloprid Nitenpyram Sulfoxaflor Thiacloprid Thiamethoxam	OSDWA †
Water (Organic) Nitrilotriacetic Acid (NTA) - Water (036) WT-TM-1007; modified from EPA 430.1 COLORIMETRIC Nitrilotriacetic acid (NTA)	OSDWA †
Water (Organic) Nonylphenol and Nonylphenol Ethoxylates - Water (116) WT-TM-1521; modified from JOURNAL OF CHROMATOGRAPHY A, 849 (1999) 467-482 LC-MS/MS - EXTRACTION Bisphenol A Nonylphenol Diethoxylate (NP2EO) Nonylphenol Ethoxylates Nonylphenol Monoethoxylates (NP1EO) Nonylphenols Octylphenol Octylphenol Diethoxylate Octylphenol Monoethoxylate	OSDWA †

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Water (Organic)

Organochlorine (OC) Pesticides - Water (222)

WT-TM-1118, WT-TP-2100; modified from EPA 8081B and EPA 8270E

GC/MS - EXTRACTION

1-Methylnaphthalene

2-Methylnaphthalene

A -BHC

a - Chlordane

Aldrin

Endosulfan I

Endosulfan II

Endrin

g - Chlordane

Heptachlor

Heptachlor Epoxide

Lindane (gamma-BHC)

Mirex

o,p' - DDT

p,p' - DDT

p,p' Methoxychlor

Water (Organic)

Organochlorine (OC) Pesticides - Water [Wastewater] (019)

WT-TM-1102/WT-TM-1302; modified from EPA 3510C and EPA 8270

GC/MS - EXTRACTION

A -BHC

a - Chlordane

Aldrin

beta-BHC

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan Sulfate

Endrin

Endrin Aldehyde

g - Chlordane

Heptachlor

Heptachlor Epoxide

Lindane (gamma-BHC)

Mirex

o,p' - DDT

o,p'-DDD

o,p'-DDE

Oxychlordane

p,p' - DDT

p,p' Methoxychlor

p,p'-DDD

p,p'-DDE

OSDWA †

Water (Organic)

Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) - Water (174)

WT-TM-1557; ON MOECC E3457

LC-MS/MS

10:2 Fluorotelomer sulfonic acid (10:2 FTS)

OSDWA †

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4:2 Fluorotelomer sulfonic acid (4:2 FTS)
 6:2 Fluorotelomer sulfonic acid (6:2 FTS)
 8:2 Fluorotelomer sulfonic acid (8:2 FTS)
 N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)
 N-Ethylperfluorooctane sulfonamide (EtFOSA)
 N-Ethylperfluorooctane sulfonamidoethanol (EtFOSE)
 N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)
 N-Methylperfluorooctane sulfonamide (MeFOSA)
 N-Methylperfluorooctane sulfonamidoethanol (MeFOSE)
 Perfluorobutane sulfonic acid (PFBs)
 Perfluorobutanoic acid (PFBA)
 Perfluorodecanesulfonate (PFDS)
 Perfluorodecanoic acid (PFDA)
 Perfluorododecanoic acid (PFDoA)
 Perfluoroheptane sulfonic acid (PFHpS)
 Perfluoroheptanoic acid (PFHpA)
 Perfluorohexane sulfonic acid (PFHxS)
 Perfluorohexanoic acid (PFHxA)
 Perfluorononanoic acid (PFNA)
 Perfluorooctane sulfonamide (PFOSA)
 Perfluorooctane sulfonic acid (PFOS)
 Perfluorooctanoic acid (PFOA)
 Perfluoropentane sulfonic acid (PFPeS)
 Perfluoropentanoic acid (PFPeA)
 Perfluorotetradecanoic acid (PFTeDA)
 Perfluorotridecanoic acid (PFTTrDA)
 Perfluoroundecanoic acid (PFUndA)

Water (Organic)

OSDWA †

Pesticides - Water (023)

WT-TM-1107/WT-TM-1109-/WT-TM-1302; modified from EPA 3510C and EPA 8270

GC/MS - EXTRACTION

2,4-DP

2,4-TP

Alachlor

Ametryn

Atrazine

Azinphos-methyl

Bendiocarb

Carbaryl

Carbofuran

Chlorpyrifos (ethyl)

Cyanazine

De-ethylated atrazine

Diazinon

Diclofop-methyl (as free acid)

Dimethoate

Ethalfuralin

Fluazifop-p-butyl

Malathion

MCPA

Mecoprop

Methylparathion

Metolachlor

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Metribuzin
Parathion (ethyl)
Phorate
Prometon
Prometryne
Propazine
Simazine
Temephos
Terbufos
Terbutryn
Triallate
Trifluralin

Water (Organic)

OSDWA †

Pesticides - Water (207)

WT-TM-1589; modified from ON MOECC E3501

LC-MS/MS

Atrazine
Atrazine-2-hydroxy
Atrazine-desethyl
Atrazine-desethyl-desisopropyl
Atrazine-desisopropyl
Azoxystrobin
Boscalid
Bromacil
Carbaryl
Chlorantraniliprole
Clothianidin
DCPMU
Diuron
Fludioxonil
Imidacloprid
Iprodione
Linuron
Metalaxyl
Myclobutanil
Propiconazole
Pyraclostrobin
Simazine
Tebuthiuron
Trifloxystrobin
Triticonazole

Water (Organic)

Pesticides - Water (213)

WT-TM-1575; IN-HOUSE

LC-MS/MS

Chlorothalonil
Chlorothalonil-4-Hydroxy

Water (Organic)

Pesticides - Water (218)

WT-TM-1526; ON MOECC E3501

LC-MS/MS

Benomyl
Carboxin

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Deltamethrin
Diuron
Eptam
Ethalfuralin
Fenoxaprop
Imazamethabenz-methyl
Metsulfuron-methyl
Propachlor
Propanil
Propoxur
Quizalofop
Sethoxydim
Thifensulfuron-methyl
Tralkoxydim
Tribenuron-methyl
Trifluralin

Water (Organic)

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (068)

NA-TM-1112; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 3511

GC/FID - EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

Water (Organic)

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (069)

WT-TM-1112; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and ON MOECC E3421

GRAVIMETRIC

F4G: C34-C50

Water (Organic)

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (111)

WT-TM-1406; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 5021A and EPA 8260

GC/FID - HEADSPACE

F1: C6-C10

Water (Organic)

Phenoxy Acid Herbicides - Water (209)

WT-TM-1591; modified from ON MOECC E3552

LC-MS/MS

2,4-DB

2,4-Dichlorophenoxyacetic acid

2,4,5-TP

2,4,5-Trichlorophenoxyacetic acid

Bromoxynil

Clopyralid

Dicamba

Dichlorprop

Dinoseb

MCPA

MCPB

Mecoprop

Picloram

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Triclopyr

Water (Organic)

Polyaromatic Hydrocarbons (PAH) - Water (220)

NA-TM-1112, NA-TP-2109; modified from EPA 3511 and EPA 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

Water (Organic)

Polychlorinated Biphenyls (PCB) - Water (224)

WT-TM-1118, WT-TP-2100; EPA 3511 (PREPARATION) and EPA 8081B (ANALYSIS)

GC/MS - EXTRACTION

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Total PCB

Water (Organic)

Polychlorinated Biphenyls (PCB) - Water [Wastewater] (017)

WT-TM-1105/WT-TM-1301; modified from EPA 3510C and EPA 8270

GC/MS - EXTRACTION

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Total PCB

OSDWA †

Water (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Water (214)

WT-TM-1103, WT-TM-1311; modified from EPA 3510 and EPA 3570 and EPA 8270

GC/MS - EXTRACTION

1,3-Dinitropyrene

1,6-Dinitropyrene

1,8-Dinitropyrene

3-Methylcholanthrene

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7-H-dibenzo(c,q)carbazole
Benzo(e)pyrene
Dibenz(a,h)acridine
Dibenz(a,i)acridine
Dibenzo(a,e)pyrene
Dibenzo(a,h)pyrene
Dibenzo(a,i)pyrene

Water (Organic)

Steroids and Hormones - Water (166)

WT-TM-1555; modified from JOURNAL OF CHROMATOGRAPHY B, 879 (2011) 2998-3004
LC/MS - EXTRACTION

17a-Dihydroequilin
17a-Estradiol
17a-Ethinylestradiol
17b-Estradiol
Anderosterone
Androstendion
beta-Sitosterol
beta-Stigmastanol
Betamethasone
Campesterol
Cholestanol
Cholesterol
Coprostanol
Desmosterol
Desogestrel
Epicoprostanol
Equilenin
Equilin
Ergosterol
Estradiol-3-benzoate
Estriol
Estrone
Mestranol
Norethindrone
Norgestrel
Progesterone
Stigmasterol
Testosterone

Water (Organic)

Sulfolane - Water (205)

WT-TM-1572; IN-HOUSE

LC-MS/MS
Sulfolane

Water (Organic)

Tetraethyl Lead - Water (159)

WT-TM-1308; modified from EPA 3510C and EPA 8270D

GC/MS - DIGESTION
Tetraethyl lead

OSDWA †

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Water (Organic)

OSDWA †

Volatile Organic Compounds (VOC) - Water (113)

WT-TM-1406; modified from EPA 5021A and EPA 8260C

GC/MS - HEADSPACE

1,1-Dichloroethane
1,1-Dichloroethylene
1,1-Dichloropropene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2-Chlorotoluene
2-Hexanone (MBK)
2,2-Dichloropropane
4-Chlorotoluene
Acetone (2-Propanone)
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexachlorobutadiene
Hexane
Isopropylbenzene
Isopropyltoluene
m/p-xylene
Methyl ethyl ketone

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Methyl isobutyl ketone
Methyl t-butyl ether
n-Butylbenzene
n-Propylbenzene
Naphthalene
o-xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride

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