



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: October 24, 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 (CO₂)

Carbon monoxide (CO)

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 mercaptan (1-Butanethiol)

Carbon disulfide

Carbonyl sulfide

Diethyl disulfide

Diethyl sulfide

Dimethyl disulfide

Dimethyl sulfide

Ethyl mercaptan (Ethanethiol)

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Ethyl methyl sulfide
Hydrogen Sulfide
Isobutyl mercaptan (2-Methyl-1-propanethiol)
Isopropyl mercaptan (2-Propanethiol)
Methyl mercaptan (Methanethiol)
Propyl mercaptan (1-Propanethiol)
sec-Butyl mercaptan (2-Butanethiol)
tert-Butyl mercaptan (2-Methyl-2-propanethiol, tert-Butylthiol, TBM)
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 (Ethylene dibromide)
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-Butanone (Methyl ethyl ketone, MEK)
2-Chlorotoluene
2-Ethyltoluene
2-Hexanone (Methyl butyl ketone, MBK)
2-Methyl-1,3-butadiene (Isoprene)
2-Methylbutane (Isopentane)
2-Methylpentane
2-Propanol (Isopropyl alcohol)
2,2,4-Trimethylpentane (Isooctane)
3-Methylhexane
3-Methylpentane
4-Ethyltoluene (1-Ethyl-4-methylbenzene)
4-isopropyltoluene (p-Cymene)
Acetone (2-Propanone)
Acetonitrile
Acrolein (Propenal)
Acrylonitrile

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Aliphatic >C12-C16
Aliphatic C6-C8
Aliphatic >C8-C10
Allyl chloride (3-chloropropene)
Aromatic >C10-C12 fraction
Aromatic >C10-C16 fraction
Aromatic C6-C8 fraction
Aromatic >C8-C10 fraction
Benzene
Benzyl chloride (a-Chlorotoluene)
Bromodichloromethane
Bromoethene (Vinyl bromide)
Bromoform
Bromomethane
Butane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodifluoromethane
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Cyclohexane
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Dichloromethane (Methylene Chloride)
Ethanol
Ethyl acetate
Ethylbenzene
F1
F2
Freon 113
Freon 114
Hexachlorobutadiene
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl isobutyl ketone (MIBK)
Methyl methacrylate
Methyl tert-butyl ether (MTBE)
n-Decane
n-Heptane
n-Hexane
n-Pentane
n-Propylbenzene

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Naphthalene
Nonane
o-Xylene
Octane
Propene (Propylene)
Styrene
tert-Butanol (2-Methyl-2-propanol)
Tetrachloroethylene
Tetrahydrofuran (THF)
Toluene
Total C>10-C12
Total C>12-C16
Total C>8-C10
Total C6-C8
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl acetate

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 (Ethylene dibromide)
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-Propanol (Isopropyl alcohol)
2,2-Dichloropropane
2,2,4-Trimethylpentane (Isooctane)
4-Chlorotoluene (p-Chlorotoluene)
4-Ethyltoluene (1-Ethyl-4-methylbenzene)

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4-Phenylcyclohexene
Acetone (2-Propanone)
Allyl chloride (3-chloropropene)
Benzene
Benzyl chloride (a-Chlorotoluene)
Bromochloromethane
Bromodichloromethane
Bromoform
Carbon tetrachloride
Chlorobenzene
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Cyclohexane
Decamethylcyclopentasiloxane
Decamethyltetrasiloxane
Decane
Dibromochloromethane
Dichlorodifluoromethane
Dichloromethane (Methylene Chloride)
Dodecamethylcyclohexasiloxane
Dodecamethylpentasiloxane
Ethyl acetate
Ethylbenzene
Heptane
Hexachlorobutadiene
Hexamethylcyclotrisiloxane
Hexamethyldisiloxane
Hexane
m,p-Xylene
n-Butylbenzene
n-Propylbenzene
Naphthalene
Nonane
o-Xylene
Octamethylcyclotetrasiloxane
Octamethyltrisiloxane
Octane
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene

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Trichloroethene
Trichlorofluoromethane

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 Diethoxylate (OP2EO)
Octylphenol Monoethoxylate (OP1EO)
Octylphenol (OP)

Serum (Organic)

Perfluorinated Compounds (PFC) - Biomaterials [Serum] (196)
WT-TM-1565; J. ANALY. TOXICOL. 34: 400-410
LC-MS/MS
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorohexane sulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

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)

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8:2 Fluorotelomer sulfonic acid (8:2 FTS)
N-Ethyl perfluorooctane sulfonamide (EtFOSA)
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSSA)
N-Ethyl perfluorooctanesulfonamidoethanol (EtFOSE)
N-Methyl perfluorooctane sulfonamide (MeFOSA)
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)
Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluoroheptanoic acid (PFHpA, Perfluorohepanoate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorooctanesulfonamide (PFOSA)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)
Perfluorotridecanoic acid (PFTTrDA, Perfluorotridecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

Soil (Inorganic)

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

Soil (Inorganic)

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

Soil (Organic)

Pesticides - Solids [Soil] (208)
WT-TM-1589; modified from ON MOECC E3501
LC-MS/MS
Atrazine
Atrazine-2-hydroxy
Azoxystrobin
Boscalid
Bromacil
Carbaryl
Chlorantraniliprole
DCPMU
Desethyl atrazine
Desethyl atrazine + Desisopropyl atrazine
Desisopropyl atrazine

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Diuron
Fludioxonil
Imidacloprid
Linuron
Metalaxyl
Myclobutanil
Propiconazole
Pyraclostrobin
Simazine
Tebuthiuron
Trifloxystrobin
Triticonazole

Soil (Organic)

Phenoxy Acid Herbicides - Solids [Soil] (210)

WT-TM-1591; modified from ON MOECC E3552

LC-MS/MS

2,4-Dichlorophenoxyacetic acid (2,4-D)

2,4-Dichlorophenoxybutyric acid (2,4-DB)

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

2,4,5-TP (Silvex)

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

Asulam

Brodifacoum

Bromoxynil

Clopyralid

Dicamba

Diflufenican

Dinoseb

MCPA (2-Methyl-4-chlorophenoxyacetic acid)

MCPB (4-(4-chloro-2-methylphenoxy)butanoic acid)

MCPP (Mecoprop, Methylchlorophenoxypropionic acid)

Nicarbazin

Oryzalin

Picloram

Propanil

Terbacil

Triclopyr

Solids (Inorganic)

Acid Volatile Sulphide (AVS) - Solids (226)

WT-TM-1003; SM 4500-S2- J

COLORIMETRIC

Acid Volatile Sulphide

Solids (Inorganic)

Ammonia - Solids [Soil] (096)

WT-TM-1013; modified from EPA 350.1

COLORIMETRIC

Ammonia-N

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Solids (Inorganic)

Ammonia - Solids [Soil] (225)

WT-TM-1043; modified from JOURNAL OF ENVIRONMENTAL MONITORING (2005) SECTION 7, P. 37-42 (ANALYSIS) and SM 4500-NH3 B (PREPARATION)
FLUORIMETRY

Ammonia

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

Solids (Inorganic)

Mercury - Solids [Compost, Sludge, Soil] (050)

NA-TM-1005, NA-TP-2004; modified from EPA 1631E and EPA 200.2
CVAAS

Mercury

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Solids (Inorganic)

Metals - Solids (138)

NA-TM-1002, NA-TM-1700; 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 (Sulfur)
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
Magnesium
Manganese

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Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silver
Sodium
Strontium
Sulphur (Sulfur)
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

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-1003, NA-TM-1700; 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 (MIPA)

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-1101, WT-TM-1300; 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-Methylphenol (o-Cresol)
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 (2,6-DNT)
3,3'-Dichlorobenzidine
4-Chloro-3-methylphenol
4-Chloroaniline (p-Chloroaniline)
4-Chloroaniline (p-Chloroaniline)
4-Chlorophenyl phenyl ether
4-Nitrophenol
4,6-Dinitro-o-cresol
5-Nitroacenaphthene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Biphenyl (1,1-Biphenyl)
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl) phthalate (dioctyl phthalate)

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Butyl benzyl 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
Naphthalene
Nitrobenzene
PBDE 3 (4-Bromophenyl phenyl ether)
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
1,2-Dinitrobenzene (o-Dinitrobenzene)
1,3-Dinitrobenzene (1,3-DNB)
1,3,5-Trinitrobenzene (1,3,5-TNB)
2-Amino-4,6-dinitrotoluene (2-A-DNT, 2-Am-DNT)
2-Nitrotoluene (2-NT)
2,4-Dinitrotoluene
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

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Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)
Pentaerythritol tetranitrate (PETN)

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
2,4'-DDD (o,p'-DDD)
2,4'-DDE (o,p'-DDE)
2,4'-DDT (o,p'-DDT)
4,4'-DDD (p,p'-DDD)
4,4'-DDE (p,p'-DDE)
4,4'-DDT (p,p'-DDT)
4,4'-Methoxychlor (p,p'-Methoxychlor)
Aldrin
alpha-BHC
alpha-Chlordane
beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)
Chlordane
delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)
Dieldrin
Endosulfan I (a-Endosulfan)
Endosulfan II (b-Endosulfan)
Endosulfan Sulfate
Endrin
Endrin Aldehyde
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Lindane (gamma-BHC)
Mirex
Oxychlordane

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 (Guthion)
Bendiocarb
Bromoxynil
Carbaryl

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Carbofuran
Chlorpyrifos
Cyanazine
Diazinon
Diclofop-methyl
Dimethoate
Malathion
Metolachlor
Metribuzin
Parathion
Phorate
Prometon
Prometryne
Propazine
Simazine
Temephos (Abate)
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

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Benzo(b,j)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

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Solids (137)

NA-TM-1700, WT-TM-1105, WT-TM-1301; 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)

NA-TM-1700, WT-TM-1600; 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

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Carbon tetrachloride
Chloroform
Dichloromethane
Ethylbenzene
m,p-Xylene
Methyl ethyl ketone
o-Xylene
Tetrachloroethylene
Toluene

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
1,1,1,2-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 (Methyl butyl ketone, MBK)
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
Dichloromethane (Methylene Chloride)
Ethylbenzene
Ethylene Dibromide

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m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
o-Xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane

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)

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)

Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)

Perfluorodecanoic acid (PFDA, Perfluorodecanoate)

Perfluorodecanoic acid (PFDA, Perfluorodecanoate)

Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)

Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)

Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)

Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)

Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)

Perfluorononanoic acid (PFNA, Perfluorononanoate)

Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)

Perfluorooctanesulfonamide (PFOSA)

Perfluorooctanoic acid (PFOA, Perfluorooctanoate)

Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)

Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

Perfluorotridecanoic acid (PFTTrDA, Perfluorotridecanoate)

Water (Inorganic)

Acidity - Water (227)

WT-TM-1028; modified from SM 2310 B

PC TITRATE

Acidity

Water (Inorganic)

Alkalinity - Water (070)

WT-TM-1028; modified from SM 2320 B

AUTO TITRIMETRIC

Alkalinity (pH 4.5)

OSDWA †

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Water (Inorganic) Alkalinity - Water (094) WT-TM-1032; modified from EPA 310.2 COLORIMETRIC Alkalinity (pH 4.5)	OSDWA †
Water (Inorganic) Ammonia - Water (095) WT-TM-1013; modified from EPA 350.1 COLORIMETRIC Ammonia Ammonia+Ammonium	OSDWA †
Water (Inorganic) Ammonia - Water (212) WT-TM-1043; JOURNAL OF ENVIRONMENTAL MONITORING (2005) SECTION 7, P. 37-42 FLUORIMETRY Ammonia	
Water (Inorganic) Anions - Water [Wastewater] (003) NA-TM-1001; modified from EPA 300.1 ION CHROMATOGRAPHY Bromide Chloride Fluoride Nitrate Nitrite Sulfate	OSDWA †
Water (Inorganic) Biochemical Oxygen Demand (BOD) - Water (001) WT-TM-1002; modified from SM 5210 B D.O. METER BOD (5 day) CBOD (5 day)	OSDWA †
Water (Inorganic) Carbon - Water (047) WT-TM-1024; modified from SM 5310 B IR - COMBUSTION Organic Carbon	OSDWA †
Water (Inorganic) Chemical Oxygen Demand (COD) - Water (035) WT-TM-1006; modified from SM 5220 D REFLUX - COLORIMETRIC COD	OSDWA †
Water (Inorganic) Chlorate and Chlorite - Water (211) WT-TM-1044; EPA 300.1 ION CHROMATOGRAPHY Chlorate Chlorite	OSDWA †

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Water (Inorganic) Chlorine - Water (074) WT-TM-1021; modified from SM 4500-CL G COLORIMETRIC Free Chlorine Total Chlorine	OSDWA †
Water (Inorganic) Colour - Water (097) WT-TM-1014; modified from SM 2120 C COLORIMETRIC Apparent Colour True Colour	OSDWA †
Water (Inorganic) Conductivity - Water (048) WT-TM-1010; modified from EPA 9050A and SM 2510 B CONDUCTIVITY METER Conductivity (25°C)	OSDWA †
Water (Inorganic) Conductivity - Water (108) WT-TM-1028; modified from SM 2510 B PC TITRATE Conductivity (25°C)	OSDWA †
Water (Inorganic) Cyanate - Water (161) WT-TM-1036; modified from SM 4500-CN- L and SM 4500-NH3 D SELECTIVE ION ELECTRODE Cyanate	OSDWA †
Water (Inorganic) 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)	OSDWA †
Water (Inorganic) 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	OSDWA †

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Iron
 Lead
 Lithium
 Magnesium
 Manganese
 Molybdenum
 Nickel
 Phosphorus
 Potassium
 Rubidium
 Selenium
 Silicon
 Silver
 Sodium
 Strontium
 Sulphur (Sulfur)
 Tellurium
 Thallium
 Thorium
 Tin
 Titanium
 Tungsten
 Uranium
 Vanadium
 Zinc
 Zirconium

Water (Inorganic)	OSDWA †
Hexavalent Chromium - Water (157)	
WT-TM-1035; modified from EPA 3060A and EPA 7199	
ION CHROMATOGRAPHY	
Hexavalent Chromium	
Water (Inorganic)	OSDWA †
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	
Water (Inorganic)	OSDWA †
Mercury - Water [Wastewater] (049)	
NA-TM-1005; modified from EPA 1631E	
COLD VAPOUR AA - SPECTROMETRIC	
Mercury	
Water (Inorganic)	OSDWA †
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	

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Water (Inorganic) Perchlorate - Water (168) WT-TM-1505; modified from EPA 6850 LC-MS/MS - EXTRACTION Perchlorate	
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 †
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) NA-TM-1004, WT-TM-1011; modified from SM 2540 B and SM 2540 C and SM 2540 E GRAVIMETRIC Total Dissolved Solids Total Solids (TS) Volatile Solids (VS)	OSDWA †
Water (Inorganic) Tannin and Lignin - Water (181) WT-TM-1015; modified from SM 5550 B COLORIMETRIC - DISCRETE ANALYZER Tannin and Lignin	OSDWA †

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Water (Inorganic)

OSDWA †

Total Kjeldahl Nitrogen (TKN) - Water (099)
WT-TM-1041; modified from SM 4500-NORG D
COLORIMETRIC - DIGESTION
Total Kjeldahl Nitrogen

Water (Inorganic)

OSDWA †

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

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Water (Inorganic) Total Phosphorus - Water (011) WT-TM-1025; modified from SM 4500-P E and SM 4500-P F AUTO COLOR - DIGESTION Total Phosphorus	OSDWA †
Water (Inorganic) Turbidity - Water (024) WT-TM-1004; modified from SM 2130 B TURBIDIMETRIC Turbidity	OSDWA †
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) Coliforms - Water (183) NA-TM-1300; modified from SM 9215 E and SM 9223 B MOST PROBABLE NUMBER (QUANTI-TRAY) Escherichia coli Total Coliforms	OSDWA †
Water (Microbiology) Escherichia coli (E. coli) - Water (052) WT-TM-1200; modified from ON MOECC COMPARISON EVALUATION and SM 9222D MEMBRANE FILTRATION (mFC-BCIG) Escherichia coli	OSDWA †
Water (Microbiology) Fecal (Thermotolerant) Coliforms - Water (051) WT-TM-1200; modified from SM 9222 D MEMBRANE FILTRATION (m FC) Fecal (Thermotolerant) Coliforms	OSDWA †
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	OSDWA †

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Total Coliforms	
Water (Organic)	OSDWA †
1,4-Dioxane - Water (172)	
WT-TM-1406; modified from EPA 5021A and EPA 8260C	
GC/MS - HEADSPACE	
1,4-Dioxane (p-dioxane)	
Water (Organic)	OSDWA †
Aldicarb and Diuron - Water (135)	
WT-TM-1502; modified from ON MOECC E3501	
LC-MS/MS - EXTRACTION	
Aldicarb	
Diuron	
Water (Organic)	OSDWA †
Alkanolamines - Water (216)	
WT-TM-1574; modified from ASTM D7599	
LC-MS/MS	
Diethanolamine (DEA)	
Diisopropanolamine (DIPA)	
Methyldiethanolamine (MDEA)	
Monoethanolamine (MEA)	
Monoisopropanolamine (MIPA)	
Triethanolamine (TEA)	
Water (Organic)	OSDWA †
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-Methylphenol (o-Cresol)	
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 (2,6-DNT)	
3,3'-Dichlorobenzidine	

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4-Chloro-3-methylphenol
4-Chloroaniline (p-Chloroaniline)
4-Chloroaniline (p-Chloroaniline)
4-Chlorophenyl phenyl ether
4-Nitrophenol
4,6-Dinitro-o-cresol
5-Nitroacenaphthene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Biphenyl (1,1-Biphenyl)
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl) phthalate (dioctyl phthalate)
Butyl benzyl 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
Naphthalene
Nitrobenzene
PBDE 3 (4-Bromophenyl phenyl ether)
Pentachlorophenol
Perylene
Phenanthrene
Phenol
Pyrene

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Quinoline
Total Diphenylamine

Water (Organic)

Caffeine - Water (228)
WT-TM-1581; modified from EPA 1694
LC-MS/MS
Caffeine

Water (Organic)

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

OSDWA †

Water (Organic)

Energetics - Water (194)
WT-TM-1608; modified from EPA 8330A and EPA 8330B
HPLC/UV - EXTRACTION
1,2-Dinitrobenzene (o-Dinitrobenzene)
1,3-Dinitrobenzene (1,3-DNB)
1,3,5-Trinitrobenzene (1,3,5-TNB)
2-Amino-4,6-dinitrotoluene (2-A-DNT, 2-Am-DNT)
2-Nitrotoluene (2-NT)
2,4-Dinitrotoluene
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-trinitrophenyl nitramine
Nitrobenzene
Nitroglycerin
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)
Pentaerythritol tetranitrate (PETN)

Water (Organic)

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

OSDWA †

Water (Organic)

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

OSDWA †

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Water (Organic)	OSDWA †
Haloacetic Acids (HAA) - Water (163)	
WT-TM-1604; modified from EPA 552.3	
GC/ECD	
Bromochloroacetic acid	
Bromodichloroacetic acid	
Chlorodibromoacetic acid (CDBAA)	
Dalapon (2,2-Dichloropropionic Acid)	
Dibromoacetic acid	
Dichloroacetic acid	
Monobromoacetic acid	
Monochloroacetic acid	
Tribromoacetic acid	
Trichloroacetic acid	
Water (Organic)	OSDWA †
Hydrocarbons - Water (062)	
WT-TM-1602; modified from EPA REGION 1, 2002	
GC/FID - HEADSPACE	
Ethane	
Ethene (Ethylene)	
Methane	
Water (Organic)	OSDWA †
Neonicotinoids - Water (200)	
WT-TM-1569; modified from ON MOECC E3544	
LC-MS/MS	
6-Chloronicotinic acid	
Acetamiprid	
Clothianidin	
Flonicamid	
Imidacloprid	
Nitenpyram	
Sulfoxaflor	
Thiacloprid	
Thiamethoxam	
Water (Organic)	OSDWA †
Nitrilotriacetic Acid (NTA) - Water (036)	
WT-TM-1007; modified from EPA 430.1	
COLORIMETRIC	
Nitrilotriacetic acid (NTA)	
Water (Organic)	OSDWA †
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 Diethoxylate (OP2EO)	
Octylphenol Monoethoxylate (OP1EO)	

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Octylphenol (OP)

Water (Organic)

Organochlorine (OC) Pesticides - Water (222)

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

GC/MS - EXTRACTION

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)

OSDWA †

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

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

GC/MS - EXTRACTION

2,4'-DDD (o,p'-DDD)

2,4'-DDE (o,p'-DDE)

4,4'-DDD (p,p'-DDD)

4,4'-DDE (p,p'-DDE)

A -BHC

a - Chlordane

Aldrin

beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)

delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan Sulfate

Endrin

Endrin Aldehyde

g - Chlordane

Heptachlor

Heptachlor epoxide

Lindane (gamma-BHC)

Mirex

o,p' - DDT

Oxychlordane

p,p' - DDT

p,p' Methoxychlor

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Water (Organic)

OSDWA †

Perfluorinated Compounds (PFC) - Water (174)

WT-TM-1557; ON MOECC E3457

LC-MS/MS

10:2 Fluorotelomer sulfonic acid (10:2 FTS)
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
4:2 Fluorotelomer sulfonic acid (4:2 FTS)
6:2 Fluorotelomer sulfonic acid (6:2 FTS)
8:2 Fluorotelomer sulfonic acid (8:2 FTS)
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)
Dodecafluoro-3H-4,8-dioxanonic acid (DONA)
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSSA)
N-Ethylperfluorooctane sulfonamide (EtFOSSA)
N-Ethylperfluorooctane sulfonamidoethanol (EtFOSE)
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)
N-Methylperfluorooctane sulfonamide (MeFOSSA)
N-Methylperfluorooctane sulfonamidoethanol (MeFOSE)
Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorooctanesulfonamide (PFOSA)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)
Perfluorotridecanoic acid (PFTTrDA, Perfluorotridecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

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-Dichlorophenoxypropionic acid (2,4-DP, Dichlorprop)
2,4-TP
Alachlor
Ametryn
Atrazine
Azinphos-methyl
Bendiocarb
Carbaryl
Carbofuran
Chlorpyrifos ethyl

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Cyanazine
De-ethylated atrazine
Diazinon
Diclofop-methyl (as free acid)
Dimethoate
Ethalfuralin
Fluazifop-p-butyl
Malathion
MCPA (2-Methyl-4-chlorophenoxyacetic acid)
MCPP (Mecoprop, Methylchlorophenoxypropionic acid)
Metolachlor
Metribuzin
Parathion (ethyl)
Parathion-methyl
Phorate
Prometon
Prometryne
Propazine
Simazine
Temephos (Abate)
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

Azoxystrobin

Boscalid

Bromacil

Carbaryl

Chlorantraniliprole

Clothianidin

DCPMU

Desethyl atrazine

Desethyl atrazine + Desisopropyl atrazine

Desisopropyl atrazine

Diuron

Fludioxonil

Imidacloprid

Iprodione

Linuron

Metalaxyl

Myclobutanil

Propiconazole

Pyraclostrobin

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Tebuthiuron
Trifloxystrobin
Triticonazole

Water (Organic)

OSDWA †

Pesticides - Water (213)
WT-TM-1575; IN-HOUSE
LC-MS/MS
Chlorothalonil (Daconil)
Chlorothalonil-4-Hydroxy

Water (Organic)

Pesticides - Water (218)
WT-TM-1526; ON MOECC E3501
LC-MS/MS
Benomyl
Carboxin (Carbathiin)
Deltamethrin
Diuron
Eptam (EPTC)
Ethalfuralin
Fenoxaprop
Imazamethabenz-methyl
Metsulfuron-methyl
Propachlor
Propanil
Propoxur (Baygon)
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
F4: Gravimetric

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Water (Organic)

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-Dichlorophenoxyacetic acid

2,4-Dichlorophenoxybutyric acid (2,4-DB)

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

2,4,5-TP (Silvex)

2,4,5-Trichlorophenoxyacetic acid

Asulam

Brodifacoum

Bromoxynil

Clopyralid

Dicamba

Diflufenican

Brodifacoum

Dinoseb

MCPA (2-Methyl-4-chlorophenoxyacetic acid)

MCPB (4-(4-chloro-2-methylphenoxy)butanoic acid)

MCPB (Mecoprop, Methylchlorophenoxypropionic acid)

Nicarbazin

Oryzalin

Oryzalin

Brodifacoum

Picloram

Propanil

Terbacil

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,j)fluoranthene

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

Water (Organic)

Steroids and Hormones - Water (166)
WT-TM-1555; modified from JOURNAL OF CHROMATOGRAPHY B, 879 (2011) 2998-3004
LC-MS/MS - EXTRACTION
17a-Dihydroequilin

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17a-Estradiol
17a-Ethinylestradiol
17b-Estradiol
Androstendione
Androsterone
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 †

Water (Organic)

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

OSDWA †

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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 (Methyl butyl ketone, MBK)
2,2-Dichloropropane
4-Chlorotoluene (p-Chlorotoluene)
Acetone (2-Propanone)
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexachlorobutadiene
Hexane
Isopropylbenzene (Cumene)
Isopropyltoluene
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
n-Butylbenzene
n-Propylbenzene
Naphthalene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene

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

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