



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 3200  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** January 28, 2019  
**Valid To:** May 9, 2020

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### 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 (Freon 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 (p-dioxane)  
2-Hexanone (MBK)  
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  
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  
Isopentane

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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 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  
Trichloroethene

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Trichlorofluoromethane  
Vinyl chloride

**Oil (Organic)**

Total Polychlorinated Biphenyls (PCB) - Oil (099)  
ORG-91-5115; modified from EPA 3620C and EPA 3665A and EPA 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 6010  
ICP/OES  
Arsenic  
Lead

**Soil**

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

**Soil (Inorganic)**

Metals - Solids [Biosolid, Soil] (120)  
MET-93-6105; EPA 3050B and EPA 6010C  
ICP/OES - DIGESTION  
Aluminum  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium

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

**Soil (Inorganic)**

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

**Soil (Organic)**

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

**Soil/Sediment**

Organic Carbon - Solids [Sediment, Soil] (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 - Solids [Biosolid] (116)  
INOR-93-6028; modified from EPA 1684 and ON MOECC E3139  
GRAVIMETRIC  
Total Solids  
Volatile Solids

**Solids (Inorganic)**

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

**Solids (Inorganic)**

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

**Solids (Inorganic)**

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

**Solids (Inorganic)**

Fluoride - Solids [Soil] (080)  
LAB-93-4025, INOR-93-6018; modified from EPA 1311 (PREPARATION) and SM 4500-F- C (ANALYSIS)  
ELECTRODE - TCLP  
Fluoride

**Solids (Inorganic)**

Free Cyanide - Solids [Soil] (043)  
INOR-93-6052; modified from ON MOECC E3015 and SM 4500-CN- I  
COLORIMETRIC  
Free Cyanide

**Solids (Inorganic)**

Free Cyanide - Solids [Soil] (102)  
LAB-93-4025, INOR-93-6052; modified from EPA 1311 (PREPARATION) and ON MOECC E3015 (ANALYSIS)  
and SM 4500-CN- I (ANALYSIS)  
TCLP - COLORIMETRIC  
Cyanide (WAD)

**Solids (Inorganic)**

Hexavalent Chromium - Solids [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 - Solids [Soil] (067)  
MET-93-6104; modified from EPA 6010C and MSA PART 3, CH 21  
ICP - EXTRACTION  
Boron (HWE)

**Solids (Inorganic)**

Mercury - Solids [Biosolid, Soil] (038)  
MET-93-6101; modified from EPA 7471B and SM 3112 B  
COLD VAPOUR AA - DIGESTION  
Mercury

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**Solids (Inorganic)**

Mercury - Solids [Soil] (081)

LAB-93-4025, MET-93-6100; modified from EPA 1311 (PREPARATION) and EPA 245.5 (ANALYSIS) and EPA 7471A (ANALYSIS) and SM 3112 A (ANALYSIS)

COLD VAPOUR AA - TCLP

Mercury

**Solids (Inorganic)**

Metals - Solids [Biosolid, Soil] (039)

MET-93-6103; modified from EPA 3050B and EPA 6020B and ON MOECC E3071

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

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Zinc  
Zirconium

**Solids (Inorganic)**

Metals - Solids [Soil] (078)

LAB-93-4025, MET-93-6103; EPA 1311 (PREPARATION) 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)**

Nitrate plus Nitrite - Solids [Biosolid, Soil] (079)

LAB-93-4025, INOR-93-6053; modified from EPA 1311 (PREPARATION) and EPA 1685 (ANALYSIS) and

LACHAT 10-107-04- J (ANALYSIS)

COLORIMETRIC - TCLP

Nitrate plus Nitrite

**Solids (Inorganic)**

Oil and Grease - Solids [Soil] (103)

VOL-91-5011; modified from EPA 3510C and ON MOECC E3398

GRAVIMETRIC

Mineral Oil and Grease

Total Oil and Grease

**Solids (Inorganic)**

Percent Moisture - Solids [Soil] (101)

VOL-91-5009; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GRAVIMETRIC

Percent Moisture

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**Solids (Inorganic)**

pH - Solids [Biosolid, Soil] (044)

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

pH-METER

pH 1:10

pH (1:2)

**Solids (Inorganic)**

pH - Solids [Soil] (107)

INOR-93-6031; modified from EPA 9045D and MANUAL ON SOIL SAMPLING & METHODS OF ANALYSIS, MCKEAGUE 3.11

METER, CaCl<sub>2</sub> EXTRACTION

pH (1:2): CaCl<sub>2</sub>

**Solids (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Solids [Biosolid, Soil] (110)

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

AUTOMATED COLORIMETRY - MANUAL DIGESTION

Kjeldahl Nitrogen

**Solids (Organic)**

1,4-Dioxane - Solids [Soil] (122)

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

GC/MS - PURGE AND TRAP, ISOTOPE DILUTION

1,4-Dioxane (p-dioxane)

**Solids (Organic)**

Base Neutral Acid Extractables (BNA) - Solids [Soil] (074)

ORG-91-5114; modified from EPA 3510C and EPA 625 and EPA 8270D and ON MOECC E3265

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

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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  
o-Cresol  
p-Chloroaniline  
Pentachlorophenol  
Phenanthrene  
Phenol  
Pyrene

#### **Solids (Organic)**

Herbicides - Solids [Soil] (131)  
ORG-91-5110; modified from EPA 515.1 and EPA 8151A  
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  
MCP

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Pentachlorophenol  
Picloram  
Silvex

**Solids (Organic)**

Organochlorine (OC) Pesticides - Solids [Soil] (040)

ORG-91-5113; modified from EPA 3541 and EPA 3550B and EPA 3620B and EPA 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 - Solids [Soil] (129)

ORG-91-5103; modified from EPA 3510C and EPA 8141A and EPA 8270D  
GC/MS - EXTRACTION

Azinphos-methyl  
Chlorpyrifos  
Diazinon  
Dimethoate  
Malathion  
Parathion-ethyl  
Phorate  
Terbufos

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (041)

VOL-91-5009; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GC/FID - EXTRACTION

F1: C6-C10

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**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (052)

VOL-91-5009; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GRAVIMETRIC

F4: Gravimetric

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (083)

VOL-91-5009; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GC/FID - COLD SHAKE EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

**Solids (Organic)**

Polychlorinated Biphenyls (PCB) - Solids [Soil] (060)

ORG-91-5113; modified from EPA 3541 and EPA 3550B and EPA 3620B and EPA 8081A and EPA 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) - Solids [Soil] (005)

ORG-91-5106; modified from EPA 3541 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

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**Solids (Organic)**

Total Polychlorinated Biphenyls (PCB) - Solids (151)

LAB-93-4025, ORG-91-5112; modified from EPA 1311 (PREPARATION) and EPA 8082A (ANALYSIS)

GC/ECD - TCLP

Total PCB

**Solids (Organic)**

Triazine Pesticides - Solids [Soil] (130)

ORG-91-5104; modified from EPA 3510C and EPA 8270D and ON MOECC E3121

GC/MS - EXTRACTION

Alachlor

Atrazine

Cyanazine

De-ethylated atrazine

Metolachlor

Metribuzin

Prometryne

Simazine

Trifluralin

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Solids [Soil] (001)

VOL-91-5002; modified from EPA 5035C and EPA 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 (MBK)

2,2-DICHLORO-1,1,1-TRIFLOROETHANE (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

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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) - Solids [Soil] (082)

LAB-93-4025, VOL-91-5001; EPA 1311 (PREPARATION) and EPA 5035C (ANALYSIS) 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

**Tissue (Inorganic)**

Metals - Tissue (127)

MET-93-6103; modified from EPA 3050B and EPA 6020C and ON MOECC E3071 and ON MOECC E3094

ICP/MS  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium

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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

### **Vegetation**

Metals - Tissue [Vegetation] (128)

MET-93-6103; modified from EPA 3050B and EPA 6020C and ON MOECC E3071 and ON MOECC E3094

ICP/MS

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Cerium  
Cesium  
Chromium

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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

<b>Water (Inorganic)</b> Alkalinity - Water (017) INOR-93-6000; modified from SM 2320 B TITRIMETRIC Alkalinity (pH 4.5)	OSDWA †
<b>Water (Inorganic)</b> Ammonia - Water (018) INOR-93-6002; modified from SM 4500-NH3 F AUTO COLOR Ammonia	OSDWA †
<b>Water (Inorganic)</b> Ammonia - Water (125) INOR-93-6059; modified from SM 4500-NH3 H AUTO COLOR Ammonia	OSDWA †
<b>Water (Inorganic)</b> Anions - Water (019) INOR-93-6004; modified from SM 4110 B ION CHROMATOGRAPHY Bromide	OSDWA †

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Chloride  
Fluoride  
Nitrate  
Nitrite  
Phosphate  
Sulfate

<b>Water (Inorganic)</b> Biochemical Oxygen Demand (BOD) - Water (020) INOR-93-6006; modified from SM 5210 B D.O. METER BOD (5 day) CBOD (5 day)	OSDWA †
<b>Water (Inorganic)</b> Carbon - Water (076) INOR-93-6049; modified from SM 5310 B IR - COMBUSTION Inorganic Carbon Organic Carbon	OSDWA †
<b>Water (Inorganic)</b> Chemical Oxygen Demand (COD) - Water (059) INOR-93-6042; modified from SM 5220 A and SM 5220 D SPECTROPHOTOMETRIC COD	OSDWA †
<b>Water (Inorganic)</b> Colour - Water (114) INOR-93-6046; modified from SM 2120 C SPECTROPHOTOMETRIC, VISIBLE True Colour	OSDWA †
<b>Water (Inorganic)</b> Conductivity - Water (025) INOR-93-6016; modified from SM 2510 B CONDUCTIVITY METER Conductivity (25°C)	OSDWA †
<b>Water (Inorganic)</b> Conductivity - Water (111) INOR-93-6000; modified from SM 2510 B AUTOMATED CONDUCTIVITY (TITRASIP) Conductivity (25°C)	
<b>Water (Inorganic)</b> Cyanide - Water (084) INOR-93-6051; modified from ON MOECC E3015 and SM 4500-CN- A and SM 4500-CN- B and SM 4500-CN- C AUTO COLOR Cyanide (SAD)	OSDWA †
<b>Water (Inorganic)</b> Cyanide - Water (085) INOR-93-6052; modified from ON MOECC E3015 and SM 4500-CN- I AUTO COLOR Free Cyanide	OSDWA †

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**Water (Inorganic)**

Dissolved Metals - Water (028)

MET-93-6103; modified from EPA 200.8 and EPA 3005A

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

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 6010C

ICP/OES

Aluminum

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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

**Water (Inorganic)**

Ferrous Iron - Water (140)  
 INOR-93-6056; modified from SM 3500-FE B  
 COLORIMETRIC  
 Ferrous Iron (Fe<sup>2+</sup>)

**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 EPA 245.2 and SM 3112 B  
 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

OSDWA †

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Total Oil and Grease	
<b>Water (Inorganic)</b>	OSDWA †
pH - Water (029)	
INOR-93-6020; modified from SM 4500-H+ B	
pH METER	
pH	
<b>Water (Inorganic)</b>	OSDWA †
pH - Water (104)	
INOR-93-6000; modified from SM 4500-H+ B	
PC TITRATE	
pH	
<b>Water (Inorganic)</b>	OSDWA †
Phenols - Water (075)	
INOR-93-6050; ON MOECC E3179 and SM 5530 D	
TECHNICON	
Total Phenolics	
<b>Water (Inorganic)</b>	OSDWA †
Reactive Silica - Water (071)	
INOR-93-6047; modified from EPA 370.1	
AUTO COLOR	
Reactive Silica	
<b>Water (Inorganic)</b>	
Residual Chlorine - Water (119)	
INOR-93-6055; modified from SM 4500-CL F	
TITRATION	
Total Chlorine	
<b>Water (Inorganic)</b>	OSDWA †
Solids - Water [Liquid Biosolid] (032)	
INOR-93-6028; modified from EPA 1684 and ON MOECC 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	
<b>Water (Inorganic)</b>	OSDWA †
Sulphide - Water (113)	
INOR-93-6054; modified from SM 4500-S2- D	
COLORIMETRIC	
Sulphide	
<b>Water (Inorganic)</b>	OSDWA †
Tannin and Lignin - Water (124)	
INOR-93-6058; modified from SM 5550-B	
COLORIMETRIC	
Tannin and Lignin	
<b>Water (Inorganic)</b>	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	

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**Water (Inorganic)**

OSDWA †

Total Metals - Water (070)

MET-93-6103; modified from EPA 200.8 and EPA 3005A and EPA 3010A and EPA 6020C

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  
Silver  
Strontium  
Thallium  
Thorium  
Titanium  
Tungsten  
Uranium  
Vanadium  
Yttrium  
Zinc  
Zirconium

**Water (Inorganic)**

OSDWA †

Total Metals - Water (121)

MET-93-6105; modified from EPA 6010C

ICP/OES - DIGESTION

Aluminum  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt

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

**Water (Inorganic)**

Total Phosphorus - Water (030)  
INOR-93-6022; modified from SM 4500-P B and SM 4500-P E  
COLORIMETRIC  
Total Phosphorus

OSDWA †

**Water (Inorganic)**

Total Phosphorus - Water (112)  
INOR-93-6057; modified from LCHAT 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  
MEMBRANE FILTRATION (MI AGAR)  
Escherichia coli (E. coli)  
Total Coliforms

OSDWA †

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<b>Water (Microbiology)</b> Coliforms - Water (135) MIC-93-7010; ON MOECC E3407 MEMBRANE FILTRATION (DC-AGAR) Background Colony Counts Escherichia coli (E. coli) Total Coliforms	OSDWA †
<b>Water (Microbiology)</b> Fecal (Thermotolerant) Coliforms - Water (055) MIC-93-7000; modified from SM 9222 D MEMBRANE FILTRATION (mFC) Fecal (Thermotolerant) Coliforms	OSDWA †
<b>Water (Microbiology)</b> Heterotrophic Plate Count (HPC) - Water (050) MIC-93-7020; modified from SM 9215 C SPREAD PLATE Heterotrophic Plate Count (HPC)	OSDWA †
<b>Water (Organic)</b> 1,4-Dioxane - Water (123) VOL-91-5015; modified from EPA 1624C and EPA 5030C GC/MS - PURGE AND TRAP, ISOTOPE DILUTION 1,4-Dioxane (p-dioxane)	
<b>Water (Organic)</b> Base Neutral Acid Extractables (BNA) - Water (073) ORG-91-5114; modified from EPA 3510C and EPA 625 and EPA 8270D and ON MOECC E3265 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	OSDWA †

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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  
o-Cresol  
p-Chloroaniline  
Pentachlorophenol  
Phenanthrene  
Phenol  
Pyrene

**Water (Organic)**

BTEX - Water (137)  
VOL-91-5010; EPA 5030B and EPA 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 531.1 and EPA 632 and ON MOECC E3158  
HPLC - EXTRACTION  
Aldicarb  
Bendiocarb  
Carbaryl  
Carbofuran

OSDWA †

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Diuron  
Temephos  
Triallate

**Water (Organic)**

OSDWA †

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

**Water (Organic)**

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

**Water (Organic)**

OSDWA †

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

**Water (Organic)**

OSDWA †

Herbicides - Water (034)  
ORG-91-5110; modified from EPA 515.1 and EPA 8151A  
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

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**Water (Organic)**

Neutral Chlorinated Extractables - Water (106)  
ORG-91-5111; modified from EPA 3541 and EPA 8121  
GC/ECD - EXTRACTION  
1,2,3-Trichlorobenzene  
1,2,3,4-Tetrachlorobenzene (1,2,3,4-TCB)  
1,2,3,5-Tetrachlorobenzene  
1,2,4-Trichlorobenzene  
1,2,4,5-Tetrachlorobenzene (1,2,4,5-TCB)  
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 (OC) Pesticides and Polychlorinated Biphenyls (PCB) - Water (033)  
ORG-91-5112; modified from EPA 3510C and EPA 8081B and EPA 8082A  
GC/ECD - EXTRACTION  
A -BHC  
a - Chlordane  
Aldrin  
Aroclor 1016  
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  
g - Chlordane  
Heptachlor  
Heptachlor Epoxide  
Hexachlorobenzene

OSDWA †

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Hexachlorobutadiene  
 Hexachloroethane  
 Lindane (gamma-BHC)  
 Mirex  
 o,p' - DDT  
 o,p-DDD  
 op'-DDE  
 Oxychlorane  
 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 3510C and EPA 8141A and EPA 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 ON MOECC E3421  
 GC/FID - PURGE AND TRAP  
 F1: C6-C10

**Water (Organic)** OSDWA †

Petroleum Hydrocarbons (PHC) - Water (064)  
 VOL-91-5010; modified from ON MOECC E3421  
 GC/FID - EXTRACTION  
 F2: C10-C16  
 F3: C16-C34  
 F4: C34-C50

**Water (Organic)** OSDWA †

Petroleum Hydrocarbons (PHC) - Water (068)  
 VOL-91-5010; modified from ON MOECC E3421  
 GRAVIMETRIC  
 F4G: Gravimetric

**Water (Organic)** OSDWA †

Polycyclic Aromatic Hydrocarbons (PAH) - Water (007)  
 ORG-91-5105; modified from EPA 3510C and EPA 8270D  
 GC/MS - EXTRACTION  
 1-Methylnaphthalene  
 2-Methylnaphthalene  
 Acenaphthene  
 Acenaphthylene  
 Acridine  
 Anthracene  
 Benzo (a) anthracene

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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)**

OSDWA †

Triazine Pesticides - Water (009)

ORG-91-5104; modified from EPA 3510C and EPA 8270D and ON MOECC E3121  
GC/MS- EXTRACTION

Alachlor  
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 5030B and EPA 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 (MBK)  
2,2-DICHLORO-1,1,1-TRIFLOROETHANE (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  
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 (MBK)  
Acetone (2-Propanone)  
Benzene  
Bromodichloromethane

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

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