



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 1262
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: December 5, 2018
Valid To: April 10, 2020

Scope of Accreditation

Air (Inorganic)

Asbestos and Other Fibres - Air (Ottawa West Laboratory) (066)
PM-003; modified from NIOSH 7400
PHASE CONTRAST MICROSCOPY (PCM)
Asbestos

Air (Inorganic)

Metals - Air (036)
PI-020; modified from NIOSH 7300
ICP/MS - DIGESTION
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Silver
Zinc

Air (Mycology)

Fungi - Air (Ottawa West Laboratory) (044)
PM-002; modified from ASTM D7391
MICROSCOPIC (Air-O-Cell)
Fungal Propagule - Genus

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Air (Mycology)

Fungi - Air (Ottawa West Laboratory) (045)
PM-001; modified from AIHA GUIDELINES
CULTURE
Fungal Speciation

Oil (Organic)

Total Polychlorinated Biphenyls (PCB) - Oil (008)
PO-002; modified from EPA 8080
GC/ECD - EXTRACTION
Total PCB

Paint (Inorganic)

Lead - Paint (080)
PI-031; modified from ON MOECC E3470
ICP/OES
Lead

Paint (Inorganic)

Metals - Paint (069)
PI-020; modified from EPA 6020
ICP/MS
Arsenic
Lead

Solids (Inorganic)

Anions - Solids (079)
PI-016; modified from ON MOECC E3013
ION CHROMATOGRAPHY
Bromide
Chloride
Fluoride
Nitrate
Nitrite
Phosphate
Sulphate

Solids (Inorganic)

Anions - Solids (086)
PI-016; modified from EPA 1311 (PREPARATION) and EPA 300.1 (ANALYSIS)
TCLP EXTRACTION - IC
Nitrate
Nitrite

Solids (Inorganic)

Boron - Solids [Soil] (019)
PI-025 ; modified from EPA 6020A
HOT WATER EXTRACTION - ICP/MS
Boron - Hot Water Extraction

Solids (Inorganic)

Boron - Solids [Soil] (081)
PI-031; modified from ON MOECC E3470
ICP/OES
Boron, available

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Solids (Inorganic)

Conductivity - Solids [Soil] (028)

PI-006

; modified from EPA 120.1 and ON

MOECC E3138

CONDUCTIVITY METER

Conductivity

Solids (Inorganic)

Cyanide - Solids (087)

PI-008; modified from EPA 1311 (PREPARATION) and ON MOECC E3015 (ANALYSIS)

TCLP EXTRACTION - AUTO COLOR - DISTILLATION

Cyanide (WAD)

Solids (Inorganic)

Cyanide - Solids [Soil] (076)

PI-008; modified from ON MOECC E3015

AUTO COLOR

Cyanide, Free

Solids (Inorganic)

Fluoride - Solids (005)

PI-007

; modified from EPA 1311

(PREPARATION) and EPA 340.2 (ANALYSIS)

TCLP EXTRACTION - SELECTIVE ION ELECTRODE

Fluoride

Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (026)

PI-013

; modified from ON MOECC E3056A-1

COLOR - EXTRACTION

Hexavalent chromium

Solids (Inorganic)

Mercury - Solids (085)

PI-015; modified from EPA 1311 (PREPARATION) and EPA 245.1 (ANALYSIS)

TCLP EXTRACTION/CVAA

Mercury

Solids (Inorganic)

Mercury - Solids [Soil] (018)

PI-015

; modified from EPA 7471B

COLD VAPOUR AA - DIGESTION

Mercury

Solids (Inorganic)

Metals - Solids (084)

PI-020; modified from EPA 1311 (PREPARATION) and EPA 200.8 (ANALYSIS)

TCLP EXTRACTION - ICP/MS

Arsenic

Barium

Boron

Cadmium

Chromium

Lead

Selenium

Silver

Uranium

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Solids (Inorganic)

Metals - Solids [Soil] (009)

PI-020

; modified from EPA 6020A

ICP/MS - DIGESTION

Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Molybdenum
Nickel
Selenium
Silver
Sodium
Thallium
Tin
Uranium
Vanadium
Zinc

Solids (Inorganic)

Metals - Solids [Soil] (077)

PI-031; modified from EPA 6010C and ON MOECC E3470

ICP/OES

Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Molybdenum
Nickel
Potassium
Selenium
Silver
Sodium
Strontium

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Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

(Parameter suspended on 8/11/2018)

Solids (Inorganic)

pH - Solids [Soil] (027)

PI-010

; modified from EPA 150.1

and ON MOECC E3137

POTENTIOMETRIC

pH

Solids (Inorganic)

Volatile Organic Compounds (VOC) - Solids (088)

PO-001; modified from EPA 1311 (PREPARATION) and EPA 624 (ANALYSIS)

TCLP EXTRACTION/GC/MS - PURGE AND TRAP

1,1-Dichloroethylene

1,2-Dichlorobenzene

1,2-Dichloroethane

1,4-Dichlorobenzene

Benzene

Carbon tetrachloride

Chlorobenzene

Chloroform

Dichloromethane

Methyl ethyl ketone

Tetrachloroethylene

Trichloroethylene

Vinyl chloride

Solids (Mycology)

Fungi - Solids (Ottawa West Laboratory) (043)

PM-002; modified from ASTM D7391

MICROSCOPIC

Fungal Propagule - Genus

Solids (Mycology)

Fungi - Solids (Ottawa West Laboratory) (046)

PM-001; modified from AIHA GUIDELINES

CULTURE

Fungal Propagule - Genus

Fungal Speciation

Solids (Organic)

Base Neutral Acid Extractables (BNA) - Solids (082)

PO-003; modified from EPA 1311 (PREPARATION) and EPA 8270 (ANALYSIS)

TCLP EXTRACTION - GC/MS

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

Cresols (total)

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Hexachlorobenzene
Hexachlorobutadiene
Hexachloroethane
Nitrobenzene
Pentachlorophenol
Pyridine

Solids (Organic)

Flashpoint - Solids [Ash, Soil] (096)
PO-012; modified from ASTM D93
PENSKEY-MARTENS CLOSED CUP
Flashpoint

Solids (Organic)

Glycols - Solids [Soil] (093)
PO-015; modified from EPA 8015C
GC/FID
Diethylene glycol
Ethylene glycol
Propylene glycol
Triethylene glycol
Trimethylene glycol

Solids (Organic)

Organochlorine (OC) Pesticides - Solids [Soil] (094)
PO-016; modified from EPA 8081
GC/ECD - EXTRACTION
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
delta-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endrin
Endrin Aldehyde
Endrin Ketone
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Hexachlorobutadiene
Hexachlorobenzene
Hexachloroethane
Lindane (gamma-BHC)
o,p'-DDD
o,p'-DDE
o,p'-DDT
p,p'-DDD
p,p'-DDE
p,p'-DDT
p,p'-Methoxychlor

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Solids (Organic)

Polychlorinated Biphenyls (PCB) - Solids (083)

PO-002; modified from EPA 1311 (PREPARATION) and EPA 8080A (ANALYSIS)

TCLP EXTRACTION - GC/ECD

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Solids (Organic)

Semi-Volatile Organic Compounds (SVOC) - Solids (074)

PO-003 SVOC; modified from EPA 8270

GC/MS - EXTRACTION

1-Methylnaphthalene

1,2,4-Trichlorobenzene

2-Chloronaphthylene

2-Chlorophenol

2-Methylnaphthalene

2-Nitrophenol

2,3,4,5-Tetrachlorophenol

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-Dinitrotoluene

3,3-Dichlorobenzidine

4-Chloro-3-methyl phenol

4-Chloroaniline

4-Chlorophenyl phenyl ether

4-Nitrophenol

Acenaphthene

Acenaphthylene

Anthracene

Benzo (a) anthracene

Benzo (a) pyrene

Benzo (b) fluoranthene

Benzo (g,h,i) perylene

Benzo (k) fluoranthene

Benzyl butylphthalate

Biphenyl

Bis(2-chloroethoxy)methane

Bis(2-chloroethyl) ether

Bis(2-chloroisopropyl) ether

Bis(2-ethylhexyl) phthalate

Chrysene

Di-n-butyl phthalate

Di-n-octyl phthalate

Dibenzo (a,h) anthracene

Diethyl phthalate

Dimethyl phthalate

Fluoranthene

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Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3 - cd) pyrene
Indole
m,p-Cresol
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Naphthalene
Nitrobenzene
o-Cresol
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Quinoline

Solids (Organic)

Total Petroleum Hydrocarbons (TPH) - Solids [Soil] (020)
PO-007 ; CCME CWS PETROLEUM
HYDROCARBONS IN SOIL - TIER 1 METHOD (REV. 5.0)
GC/FID - EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50
TPH (C10-C24)

Solids (Organic)

Total Petroleum Hydrocarbons (TPH) - Solids [Soil] (021)
PO-006 ; CCME CWS
PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD (REV. 5.0)
GC/FID - PURGE AND TRAP
F1: C6-C10
TPH (C5-C10)

Solids (Organic)

Total Petroleum Hydrocarbons (TPH) - Solids [Soil] (025)
PO-009 ; modified from ON
MOECC E3398
GRAVIMETRIC - EXTRACTION
F4: Gravimetric
Total Petroleum Hydrocarbons (heavy oil)

Solids (Organic)

Total Polychlorinated Biphenyls (PCB) - Solids [Soil] (029)
PO-002 ; modified from EPA
8080A
GC/ECD - EXTRACTION
Total PCB

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (017)
PO-001 ; modified from EPA
624 and EPA 8240
GC/MS - PURGE AND TRAP
1,1-Dichloroethane

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1,1-dichloroethylene
 1,1,1-Trichloroethane
 1,1,1,2-Tetrachloroethane
 1,1,2-Trichloroethane
 1,1,2,2-Tetrachloroethane
 1,2-dichlorobenzene
 1,2-dichloroethane
 1,2-Dichloropropane
 1,3-Dichlorobenzene
 1,3,5-Trimethylbenzene
 1,4-dichlorobenzene
 Acetone (2-Propanone)
 Benzene
 Bromodichloromethane
 Bromoform
 Bromomethane
 Carbon Tetrachloride
 Chlorobenzene
 Chlorodibromomethane
 Chloroethane
 Chloroform
 Chloromethane
 cis-1,2-Dichloroethylene
 cis-1,3-Dichloropropene
 Dichlorodifluoromethane
 Dichloromethane
 Ethylbenzene
 Ethylene Dibromide
 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

Water (Inorganic)

OSDWA †

Alkalinity - Water (001)
 PI-003; modified from EPA 310.1
 TITRIMETRIC
 Alkalinity (pH 4.5)

Water (Inorganic)

OSDWA †

Ammonia - Water (062)
 PI-004; modified from EPA 351.2
 AUTO COLOR
 Ammonia

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Water (Inorganic)

Dissolved and Extractable Metals - Water (004)
PI-020

OSDWA †

; modified from EPA 200.8

ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Molybdenum
Nickel
Potassium
Selenium
Silicon
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Hexavalent Chromium - Water (033)
PI-013; modified from ON MOECC E3056A-1
COLORIMETRIC
Hexavalent Chromium

OSDWA †

Water (Inorganic)

Metals - Water (078)
PI-031; modified from ON MOECC E3073
ICP/OES
Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium

OSDWA †

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Chromium
 Cobalt
 Copper
 Iron
 Lead
 Magnesium
 Manganese
 Molybdenum
 Nickel
 Potassium
 Selenium
 Silver
 Sodium
 Strontium
 Thallium
 Tin
 Titanium
 Uranium
 Vanadium
 Zinc

(Parameter suspended on 12/5/2018)

Water (Inorganic)	OSDWA †
Oil and Grease - Water (032)	
PO-004; modified from SM 5520 B and SM 5520 F	
GRAVIMETRIC - EXTRACTION	
F4G	
Mineral Oil and Grease	
Total Oil and Grease	
Water (Inorganic)	OSDWA †
pH - Water (013)	
PI-010	; modified from EPA 150.1
pH METER	
pH	
Water (Inorganic)	OSDWA †
Phenols - Water (064)	
PI-002; modified from EPA 420.2	
AUTO COLOR - DISTILLATION	
Total Phenolics	
Water (Inorganic)	OSDWA †
Solids - Water (040)	
PI-012; modified from SM 2450 C and SM 2450 D	
GRAVIMETRIC	
Total Dissolved Solids	
Total Suspended Solids	
Volatile Suspended Solids	
Water (Inorganic)	OSDWA †
Sulphide - Water (041)	
PI-001; modified from SM 4500-S2- D	
COLORIMETRIC (METHYLENE BLUE)	
Sulphide	

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Water (Inorganic) Total Kjeldahl Nitrogen (TKN) - Water (061) PI-004; modified from EPA 351.2 AUTO COLOR - DIGESTION Total Kjeldahl Nitrogen	OSDWA †
Water (Inorganic) Total Mercury - Water (014) PI-015 COLD VAPOUR AA - DIGESTION Mercury	OSDWA † ; modified from EPA 245.1
Water (Inorganic) Total Metals - Water (065) PI-020; modified from EPA 200.8 ICP/MS - DIGESTION Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Titanium Tungsten Vanadium Zinc	OSDWA †
Water (Inorganic) Total Phosphorus - Water (060) PI-011; modified from EPA 365.1 AUTO COLOR - DIGESTION Total Phosphorus	OSDWA †
Water (Inorganic) Turbidity - Water (051) PI-017; modified from HACH 2100 P NEPHELOMETRY Turbidity	OSDWA †

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Water (Microbiology) Coliforms - Water (057) PW-001; modified from ON MOECC E3407 MEMBRANE FILTRATION (DC-AGAR) Background Counts Escherichia coli (E. coli) Total Coliforms	OSDWA †
Water (Microbiology) Fecal (Thermotolerant) Coliforms - Water (058) PW-002; modified from SM 9222 D MEMBRANE FILTRATION (mFC) Fecal (Thermotolerant) Coliforms	OSDWA †
Water (Microbiology) Heterotrophic Plate Count (HPC) - Water (059) PW-003; modified from SM 9215 C SPREAD PLATE (PCA) Heterotrophic Plate Count (HPC)	OSDWA †
Water (Microbiology) Legionella - Water [Wastewater] (092) PW-004; ISO 11731 and SM 9260 J MEMBRANE FILTRATION-DIRECT PLATING Legionella spp.	OSDWA †
Water (Organic) Formaldehyde - Water [Wastewater] (089) PO-014; modified from EPA 556.1 GC/ECD Formaldehyde	OSDWA †
Water (Organic) Glycols - Water [Wastewater] (090) PO-015; modified from EPA 8015C GC/FID Diethylene glycol Ethylene glycol Propylene glycol Triethylene glycol Trimethylene glycol	
Water (Organic) Organochlorine (OC) Pesticides - Water [Wastewater] (091) PO-016; modified from EPA 8081 and EPA 8082A GC/ECD - EXTRACTION A -BHC a - Chlordane Aldrin beta-BHC delta-BHC Dieldrin Endosulfan I Endosulfan II Endrin Endrin Aldehyde Endrin Ketone q - Chlordane	

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Heptachlor
Heptachlor Epoxide
Hexachlorobenzene
Hexachlorobutadiene
Hexachloroethane
Lindane (gamma-BHC)
o,p' - DDT
o,p'-DDD
o,p'-DDE
p,p' - DDT
p,p' Methoxychlor
p,p'-DDD
p,p'-DDE

Water (Organic)

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (038)
PO-006; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD (ANALYSIS)
and ON MOECC E3421 (PREPARATION)
GC/FID - PURGE AND TRAP
F1: C6-C10

Water (Organic)

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (039)
PO-007; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD (ANALYSIS)
and ON MOECC E3421 (PREPARATION)
GC/FID - EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50

Water (Organic)

OSDWA †

Semi-Volatile Organic Compounds (SVOC) - Water (075)
PO-003 SVOC; modified from EPA 8270
GC/MS - EXTRACTION
1-Methylnaphthalene
1,2,4-Trichlorobenzene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Nitrophenol
2,3,4,5-Tetrachlorophenol
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-Dinitrotoluene
3,3-Dichlorobenzidine
4-Chloro-3-methyl phenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Nitrophenol
7H-Dibenzo(c,g)carbazole
Acenaphthene

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Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo(e)pyrene
Benzo (g,h,i) perylene
Benzo(i)fluoranthene
Benzo (k) fluoranthene
Benzyl butylphthalate
Biphenyl
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl) phthalate
Chrysene
Di-n-butyl phthalate
Di-n-octyl phthalate
Dibenzo (a,h) anthracene
Dibenzo(a,i)pyrene
Dibenzo(a,i)acridine
Diethyl phthalate
Dimethyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3 - cd) pyrene
Indole
m,p-Cresol
N-Nitrosodiphenylamine
Naphthalene
Nitrobenzene
o-Cresol
Pentachlorophenol
Perylene
Phenanthrene
Phenol
Pyrene
Quinoline

Water (Organic)

Tannin and Lignin - Water (073)
PI-018 TANNIN AND LIGNIN; SM 5550
COLORIMETRIC
Tannin and Lignin

OSDWA †

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Water (Organic)

Total Petroleum Hydrocarbons (TPH) - Water (030)

PO-006

; modified from ON MOECC

E3420 and ON MOECC E3421

GC/FID - PURGE AND TRAP

Total Petroleum Hydrocarbons (TPH): C5-C10

Water (Organic)

Total Petroleum Hydrocarbons (TPH) - Water (031)

PO-007

; modified from ON MOECC

E3421

GC/FID - EXTRACTION

Total Petroleum Hydrocarbons (TPH): C10 -C24

Water (Organic)

Total Polychlorinated Biphenyls (PCB) - Water (035)

PO-002

OSDWA †

; modified from EPA 8080A

GC/ECD - EXTRACTION

Total PCB

Water (Organic)

Volatile Organic Compounds (VOC) - Water (007)

PO-001

OSDWA †

; modified from EPA 624

GC/MS - PURGE AND TRAP

1,1-Dichloroethane

1,1-dichloroethylene

1,1,1-Trichloroethane

1,1,1,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,3-Dichlorobenzene

1,3,5-Trimethylbenzene

1,4-dichlorobenzene

Acetone (2-Propanone)

Benzene

Bromodichloromethane

Bromoform

Bromomethane

Carbon Tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethane

Chloroform

Chloromethane

cis-1,2-Dichloroethylene

cis-1,3-Dichloropropene

Dichlorodifluoromethane

Dichloromethane

Ethylbenzene

Ethylene Dibromide

Hexane

m/p-xylene

Methyl Ethyl Ketone

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Methyl isobutyl Ketone
Methyl t-butyl ether
o-xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride

Water/Wastewater

Legionella - Water [Wastewater] (095)

PW-008; modified from ISO 12869

QUANTITATIVE POLYMERASE CHAIN REACTION (PCR)

Legionella pneumophila

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