



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 2702

Laboratory Name: AGAT Laboratories (Calgary)

Parent Institution:

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Standard: Conforms with requirements of ISO/IEC 17025

Clients Served: All Interested Parties

Revised On: November 20, 2018

Valid To: March 26, 2020

Scope of Accreditation

Oil (Organic)

Polychlorinated Biphenyls (PCB) - Oil (015)

TO-0420; modified from AEC M106.0 and ASTM D4059-00

GC/ECD - EXTRACTION

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Aroclor 1262

Aroclor 1268

Total PCB

Paint (Inorganic)

Lead - Paint (230)

PANT-0280; modified from AOAC 974.02 and SM 3120 B

ICP

Lead

Solids (Inorganic)

Ammonia - Solids [Soil] (050)

INOR-401-0120, INST-0340, INST-0420, SOIL-0110, SOIL-0630; modified from SM 4500-NH3 G and SOIL

SAMPLING & METHODS OF ANALYSIS, CARTER

COLORIMETRIC - EXTRACTION

Ammonia-N

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Solids (Inorganic)

Anions - Solids [Soil] (043)
INST-0150, SOIL-140; modified from SM 4110 B
IC - SATURATED PASTE EXTRACTION
Chloride
Nitrate-N
Nitrite
Sulphate

Solids (Inorganic)

Atterberg Plasticity Index - Solids [Soil] (242)
SOIL-0655; ASTM D4318-10E1
LIQUID LIMIT DEVICE
Liquid Limit
Plastic Limit
Plasticity Index

Solids (Inorganic)

Available Nutrients - Solids [Soil] (213)
SOIL-0131, SOIL-0132, INST-0140; RECOMMENDED METHODS FOR SOIL ANALYSIS, ALBERTA
AGRICULTURE (RMSA) and SM 3120 B
ICP/OES
Potassium
Sulphur

Solids (Inorganic)

Available Nutrients - Solids [Soil] (214)
SOIL-0130, INST-0400; EPA 600/R-93/100 and RECOMMENDED METHODS FOR SOIL ANALYSIS, ALBERTA
AGRICULTURE (RMSA)
COLORIMETRIC
Phosphorus

Solids (Inorganic)

Boron - Solids [Soil] (085)
SOIL-270, INST-0140, INST-0141; modified from SM 3120 B and SM 3125 B and SOIL SAMPLING & METHODS
OF ANALYSIS, CARTER 2008
ICP - HOT WATER EXTRACTION
Boron

Solids (Inorganic)

Bulk Density - Solids [Bulk, Soil] (232)
SOIL-0220; BLAKE, G.R., MSA BULK DENSITY, 1986
GRAVIMETRIC
Bulk Density

Solids (Inorganic)

Chloride - Solids [Sediment, Soil] (177)
INST-0330, INST-0500; modified from SM 4500-CL- E
AUTO COLOR
Chloride

Solids (Inorganic)

Conductivity - Solids [Sediment, Soil] (174)
INST-0101, SOIL-0260; SM 2510
CONDUCTIVITY METER
Conductivity

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Solids (Inorganic)

Conductivity - Solids [Soil] (086)
INST-0120, SOIL-0260; modified from SM 2510 B
CONDUCTIVITY METER - EXTRACTION
Conductivity (2:1)
Conductivity (saturated paste)

Solids (Inorganic)

Extractable Barium - Solids [Soil] (190)
SOIL-0610, INST-0140; modified from ALBERTA ENVIRONMENT SOIL QUALITY GUIDELINES and BC MOE
LABORATORY MANUAL METHOD 9 and SM 3120 B
ICP/OES - EXTRACTION
Extractable Barium -0.1M CaCl₂
Extractable Barium -1.0M CaCl₂

Solids (Inorganic)

Flashpoint - Solids [Ash, Soil] (088)
TO-2210; modified from ASTM D93-02A
PENSKY MARTENS CLOSED CUP TESTER
Flashpoint

Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (091)
SOIL-0600; modified from SSSA PART 3 CH 25
SPECTROPHOTOMETRIC - EXTRACTION
Hexavalent chromium

Solids (Inorganic)

Hydraulic Conductivity - Solids [Soil] (244)
SOIL-0660; modified from SOIL SCIENCE SOCIETY OF AMERICA
FALLING-HEAD METHOD
Hydraulic Conductivity

Solids (Inorganic)

Mercury - Solids [Soil] (024)
INST-0161, SOIL-390; modified from BC MOE LABORATORY MANUAL SECTION C and EPA 3050B and SM
3112 B
COLD VAPOUR AA - DIGESTION
Mercury

Solids (Inorganic)

Metals - Solids [Soil] (026)
INST-0140, SOIL-390; modified from BC MOE LABORATORY MANUAL SECTION C and EPA 3050B and SM
3120
ICP - DIGESTION
Aluminum
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium

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Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silicon
Silver
Sodium
Strontium
Sulphur
Thallium
Titanium
Tungsten
Vanadium
Zinc
Zirconium

Solids (Inorganic)

Metals - Solids [Soil] (145)

INST-0141, SOIL-390; modified from BC MOE LABORATORY MANUAL SECTION C and EPA 3050A and SM 3125

ICP/MS - DIGESTION

Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Lead
Manganese
Mercury
Nickel
Strontium
Tin
Titanium
Uranium
Vanadium
Zinc

Solids (Inorganic)

Moisture - Solids [Soil] (234)

SOIL-310; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 2008
GRAVIMETRIC

Moisture Content

Solids (Inorganic)

Nitrate plus Nitrite - Solids [Sediment, Sludge, Soil] (236)

INST-0470, SOIL-0130, SOIL-0630; modified from EPA 600 and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER

AUTO COLOR

Nitrate plus Nitrite

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Nitrite

Solids (Inorganic)

Oil and Grease - Solids [Soil] (047)
TO-2200; modified from EPA 821-R-98-002 METHOD 1664
FTIR - EXTRACTION
Oil and Grease

Solids (Inorganic)

Organic Carbon - Solids [Soil] (049)
INOR-401-0120, SOIL-110, SOIL-480; modified from MSA PART 3 CH. 34
WALKLEY-BLACK WET OXID.
Organic Carbon
Organic Matter

Solids (Inorganic)

Organic Matter - Solids [Sediment, Sludge, Soil] (237)
SOIL-0470; modified from LOSS ON IGNITION METHOD, 1996 and SSSA
LOSS ON IGNITION
Organic Matter

Solids (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (058)
SOIL-520; modified from JONES J. 2001 LAB GUIDE FOR CONDUCTING SOIL TEST & PLANT ANALYSIS
HYDROMETER (2 PT.)
% clay
% Sand
% silt texture

Solids (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (059)
SOIL-540; modified from SHELDRIK, B.H. & WANG, C, CARTER MO ED. 2007
GRAVIMETRIC - SIEVE
Particle Size

Solids (Inorganic)

Percent Saturation - Solids [Soil] (093)
SOIL-0140; modified from CURTIN, MILLER, SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 2007
GRAVIMETRIC - SATURATED PASTE
Percent Saturation (Saturated Paste)

Solids (Inorganic)

pH - Solids [Soil] (046)
INOR-401-0120, INST-0104, SOIL-0110, SOIL-0140; modified from SM 4500-H+
PH METER
pH
pH (2:1)
pH (Saturated Paste)

Solids (Inorganic)

pH - Solids [Soil] (202)
SOIL-0260; modified from SM 4500-H+ and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 2ND
EDITION
pH METER - EXTRACTION
pH (1:2) Soil: CaCl₂

Solids (Inorganic)

Phenols - Solids [Soil] (197)
INST-0300; modified from EPA 420.2 and EPA 600/4-79-20
AUTO COLOR
Total Phenolics

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Solids (Inorganic)

Soluble Cations - Solids [Soil] (189)

INST-0140, SOIL-0140; modified from SM 3120 B and SOIL SAMPLING & METHODS OF ANALYSIS CHAPTER 15

ICP/OES - SATURATED PASTE EXTRACTION

Boron

Calcium

Magnesium

Potassium

Sodium

Sulphur

Solids (Inorganic)

Specific Gravity - Solids [Soil] (233)

SOIL-0230; PROCEDURE FOR USING THE BAROID MUD BALANCE MUD BALANCE

Specific Gravity

Solids (Inorganic)

Sulphur - Solids [Soil] (224)

TO-3502; IN-HOUSE

HPLC

Elemental Sulfur

Solids (Inorganic)

Total Barium - Solids [Soil] (196)

INST-0140, SOIL-0620; modified from ASTM D4503 and SM 3120 B

ICP - FUSION

Total Barium

Solids (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Solids [Sediment, Sludge, Soil] (231)

INST-0430, INST-0520, SOIL-0500; modified from EPA 351.2

COLORIMETRIC

Kjeldahl Nitrogen

Solids (Microbiology)

Heterotrophic Plate Count (HPC) - Solids [Soil] (055)

MIC-0300, MIC-0400; modified from SM 9215 C and SOIL SAMPLING & METHODS OF ANALYSIS CH.27

SPREAD PLATE

Heterotrophic Plate Count (HPC)

Solids (Organic)

Alcohols - Solids [Sediment, Soil] (165)

TO-1420; EPA 5021 and EPA 8015B

GC/FID

1-Butanol

2-Butanol

Ethanol

Isobutanol

Isopropanol

Methanol

Pentanol

Propanol

tert-Butyl alcohol

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Solids (Organic)

Amines - Solids [Soil] (141)

TO-1400; IN-HOUSE

GC/FID - EXTRACTION

Diethanolamine

Diethylethanolamine

Diisopropanolamine

Ethanolamine

Methyl diethanolamine

Monoisopropylamine

Sulfolane

Solids (Organic)

Base Neutral Extractables - Solids [Sediment, Soil] (200)

TO1500; modified from EPA 8270D

GC/MS

1,2-Dichlorobenzene

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-Dichlorobenzene

1,3,5-Trichlorobenzene

1,4-Dichlorobenzene

Hexachlorobenzene

Hexachlorobutadiene

Hexachlorocyclopentadiene

Hexachloroethane

Pentachlorobenzene

Solids (Organic)

BTEX - Solids [Soil] (092)

TO-0050; EPA 5030B (ANALYSIS) and EPA 8260B (ANALYSIS) and IN-HOUSE (PREPARATION)

GC/MS - LEACHATE

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

Solids (Organic)

BTEX - Solids [Soil] (228)

TO-0050; EPA 5030B (ANALYSIS) and EPA 8260B (ANALYSIS) and IN-HOUSE (PREPARATION)

GC/MS - LEACHATE

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

Solids (Organic)

Ethanolamines - Solids [Soil] (209)

TO-2240; IN-HOUSE

HPLC

Diethanolamine

Diisopropanolamine

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Monoethanolamine (MEA)
Monoisopropanolamine

Solids (Organic)

Glycols - Solids [Sediment, Soil] (161)
TO-1410; EPA 3570 and EPA 8015D and NIOSH 5523
GC/FID
Diethylene glycol
Ethylene Glycol
Propylene glycol
Tetraethylene glycol
Triethylene glycol

Solids (Organic)

Glyphosate - Solids [Sediment, Soil] (170)
TO-1320; IN-HOUSE
HPLC
Glyphosate

Solids (Organic)

Nitroaromatics and Nitramines and Nitrate Esters - Solids [Sediment, Soil] (203)
TO-1100, TO-2100; EPA 8330
HPLC
1,3-Dinitrobenzene (1,3-DNB)
1,3,5-Trinitrobenzene (1,3,5-TNB)
2-A-4, 6-DNT (2-am-dnt)
2-Nitrotoluene (2-NT)
2,4-DNT
2,4,6-TNT
2,6-DNT
3-Nitrotoluene
3,5-DNA
4-A-2, 6-DNT (4-am-dnt)
4-Nitrotoluene
Cyclotetramethylenetetranitramine (HMX)
Nitrobenzene
Nitroglycerin
PETN
RDX
Tetryl

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (132)
TO-0570; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - PURGE AND TRAP
F1: C6-C10

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (133)
TO-0550; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC - SOXHLET EXTRACTION
F4: Gravimetric

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (136)
TO-0560; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - COLD SHAKE EXTRACTION
F2: C10-C16

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F3: C16-C34

F4: C34-C50

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (137)

TO-0560; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC - COLD SHAKE EXTRACTION

F4: Gravimetric

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (151)

TO-0543; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/MS - HEADSPACE

F1: C6-C10

Solids (Organic)

Phenols - Solids [Sediment, Soil] (199)

TO1200; modified from EPA 8321B
HPLC/UV - EXTRACTION

2-Chlorophenol

2-Methyl-4,6-dinitrophenol

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

2,3,6-Trichlorophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,6-Dichlorophenol

3/4-Methylphenol

3,4,5-Trichlorophenol

4-Chloro-3-methyl phenol

4-Nitrophenol

Dinoseb

Pentachlorophenol

Phenol

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Solids [Soil] (071)

TO-0410; modified from AEC G106.0 and EPA 8082
GC/ECD - EXTRACTION

Arochlor 1016

Arochlor 1221

Arochlor 1232

Arochlor 1262

Arochlor 1268

Arochlor 1242

Arochlor 1248

Arochlor 1254

Arochlor 1260

Total PCB

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Solids (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (028)
TO-0210; modified from EPA 3540C and EPA 3570 and EPA 8270D
GC/MS - EXTRACTION

1-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) 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)

Sterilant Herbicides - Solids [Sediment, Soil] (195)
TO-1315; IN-HOUSE
HPLC

Atrazine
Bromacil
Diuron
Linuron
Simazine
Tebuthiuron

Solids (Organic)

Sulfolane - Solids [Soil] (241)
TO-3501; IN-HOUSE
GC/MS
Sulfolane

Solids (Organic)

Total Extractable Hydrocarbons (TEH) - Solids [Soil] (053)
TO-0510; modified from AEC V92-M2 and BC MOE CONTAMINATED SITES REGULATION (CSR) and EPA 8015D

GC/FID - EXTRACTION
EPH C10-C19
EPH C19-C32
SASK (C11-C22)
SASK (C23-C60)
Total Extractable Hydrocarbons (TEH): C10-C30

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Solids (Organic)

Total Petroleum Hydrocarbons (TPH) - Solids [Soil] (082)

TO-0550; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID - SOXHLET EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

Solids (Organic)

Total Purgeable Hydrocarbons (TPH) - Solids [Soil] (052)

TO-0570; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID - EXTRACTION

TPGH (C5-C10)

Volatile Hydrocarbons (VH): C6-C10

Solids (Organic)

Total Purgeable Hydrocarbons (TPH) - Solids [Soil] (227)

TO-0543-HEADSPACE; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID - HEADSPACE

TPGH (C5-C10)

Volatile Hydrocarbons (VH): C6-C10

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (099)

TO-0330; modified from EPA 5030C 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-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,2,4-Trichlorobenzene

1,3-Dichlorobenzene

1,4-dichlorobenzene

2-Hexanone (MBK)

Acetone (2-Propanone)

Benzene

Bromform

Bromodichloromethane

Bromomethane

Carbon Tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethane

Chloroform

Chloromethane

cis-1,2-Dichloroethylene

cis-1,3-Dichloropropene

cis-1,3-Dichloropropene

Dichloromethane

Ethylbenzene

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Ethylene Dibromide
m/p-xylene
Methyl Ethyl Ketone
Methyl isobutyl Ketone
Methyl t-butyl ether
o-xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (152)

TO-0332; modified from EPA 5021A and EPA 8260C

GC/MS - HEADSPACE

1,1-Dichloroethane
1,1-dichloroethylene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,2-dichlorobenzene
1,2-dichloroethane
1,2-Dichloropropane
1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,4-dichlorobenzene
2-Hexanone (MBK)
Acetone (2-Propanone)
Benzene
Bromomethane
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichloromethane
Ethylbenzene
Ethylene Dibromide
m/p-xylene
Methyl Ethyl Ketone
Methyl isobutyl Ketone
Methyl t-butyl ether
o-xylene
Styrene
Tetrachloroethylene
Toluene

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

Waste (Inorganic)

Anions - Waste (184)

INST-0150, SOIL-0650; modified from SCHED 4, BC HAZARDOUS WASTE REGULATIONS and SM 4110 B
IC - EXTRACTION (MODIFIED SWEP)

Fluoride
Nitrate
Nitrite

Waste (Inorganic)

Cyanide - Waste (185)

INST-0310, SOIL-0650; modified from SCHED 4, BC HAZARDOUS WASTE REGULATIONS
COLORIMETRIC (MODIFIED SWEP)

Cyanide

Waste (Inorganic)

Free Liquid - Waste [Liquid] (181)

SOIL-0580; modified from EPA 9095
PAINT FILTER TEST

Free Liquid

Waste (Inorganic)

Mercury - Waste (180)

INST-0160, SOIL-0420; BC MOE LABORATORY MANUAL SECTION C
COLD VAPOUR AA - Leachate

Mercury

Waste (Inorganic)

Mercury - Waste (183)

INST-0160, SOIL-0650; modified from SCHED 4, BC HAZARDOUS WASTE REGULATIONS
COLD VAPOUR AA - EXTRACTION (MODIFIED SWEP)

Mercury

Waste (Inorganic)

Metals - Waste (179)

INST-0140, SOIL-0420; IN-HOUSE (PREPARATION) and SM 3120 B (ANALYSIS)

ICP/OES
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Mercury
Nickel
Selenium
Silver
Thallium

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Uranium
Vanadium
Zinc
Zirconium

Waste (Inorganic)

Metals - Waste (182)

INST-0140, SOIL-0650; modified from SCHED 4, BC HAZARDOUS WASTE REGULATIONS and SM 3120 B
ICP/OES - EXTRACTION (MODIFIED SWEP)

Arsenic
Barium
Boron
Cadmium
Chromium
Copper
Lead
Mercury
Selenium
Silver
Uranium
Zinc

Waste (Inorganic)

Oil and Grease - Waste (186)

TO-3500; modified from SECTION D219, BC MOE LABORATORY MANUAL, 2013 EDITION
GRAVIMETRIC (SWOG)

Oil and Grease

Water (Inorganic)

Alkalinity - Water (001)

INST-0100; modified from SM 2320 B
TITRIMETRIC

Alkalinity (pH 4.5)

Water (Inorganic)

Alkalinity - Water (171)

INST-0101; modified from SM 2320 B
AUTO TITRIMETRIC (PC TITRATE)

Alkalinity (pH 4.5)

Water (Inorganic)

Ammonia - Water (063)

INST-0340, INST-0420; modified from SM 4500-NH3 G
COLORIMETRIC

Ammonia

Water (Inorganic)

Anions - Water (002)

INS-0150, WATR-0200; modified from SM 4110 B
ION CHROMATOGRAPHY

Bromate
Bromide
Chlorate
Chloride
Chlorite
Fluoride
Nitrate
Nitrite

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Sulfate

Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water (010)
MIC-1500; modified from SM 4500-O D and SM 5210 B
D.O. METER
BOD (5 day)
CBOD (5 day)

Water (Inorganic)

Carbon - Water (062)
INST-0170; modified from SM 5310 B
COMBUSTION - INFRARED
Inorganic Carbon
Organic Carbon

Water (Inorganic)

Chemical Oxygen Demand (COD) - Water (061)
INST-0280; modified from EPA 410.4
SPECTROPHOTOMETRIC
COD

Water (Inorganic)

Colour - Water (243)
WATR-0710; SM 2120 C
COLORIMETRIC - UV/VISIBLE
Apparent Colour
True Colour

Water (Inorganic)

Conductivity - Water (003)
INST-0120; modified from SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Water (Inorganic)

Conductivity - Water (173)
INST-0101; SM 2510
AUTO TITRIMETRIC (PC TITRATE)
Conductivity (25°C)

Water (Inorganic)

Cyanide - Water (021)
INST-0310; modified from EPA 335.4
COLOR - DISTILLATION
Cyanide (SAD)
Free Cyanide

Water (Inorganic)

Dissolved Metals - Water (004)
INST-0140, WATR-0200; modified from SM 3120 B
ICP/OES
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium

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Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silicon
Silver
Sodium
Strontium
Sulfur
Thallium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Dissolved Metals - Water (129)

INST-0141, WATR-0200; modified from SM 3125

ICP/MS

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Chromium
Cobalt
Copper
Lead
Lithium
Manganese
Molybdenum
Nickel
Selenium
Silver
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc
Zirconium

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Water (Inorganic)

Mercury - Water (073)
INST-0160; BC MOE LABORATORY MANUAL SECTION C
COLD VAPOUR AA
Mercury

Water (Inorganic)

Mercury - Water (206)
INST-0162; EPA 1631
COLD VAPOUR ATOMIC FLUORESCENCE - DIGESTION
Mercury

Water (Inorganic)

Naphthenic Acids - Water (239)
TO-2220; IN-HOUSE
FTIR - EXTRACTION
Naphthenic Acids

Water (Inorganic)

Oil and Grease - Water (069)
TO-2200; modified from EPA 821-R-98-002 METHOD 1664
FTIR - EXTRACTION
Total Oil and Grease

Water (Inorganic)

pH - Water (135)
INST-0104; modified from SM 4500-H+ B
pH METER
pH

Water (Inorganic)

pH - Water (172)
INST-0101; modified from SM 4500-H+
AUTO TITRIMETRIC (PC TITRATE)
pH

Water (Inorganic)

Phenols - Water (124)
INST-0300; modified from EPA 420.2
AUTO COLOR
Total Phenolics

Water (Inorganic)

Phosphate - Water (103)
INST-0410, INST-0530; SM 4500-P F
AUTO COLOR
Phosphate

Water (Inorganic)

Phosphorus - Water (229)
INST-0530, WATR-0720; SM 4500-P F
AUTO COLOR
Total Dissolved Phosphorus
Total Phosphorus

Water (Inorganic)

Reactive Silica - Water (007)
INST-0460, INST-0510; modified from EPA 600/4-79-20
AUTO COLOR
Reactive Silica

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Water (Inorganic)

Residual Chlorine - Water (238)
WATR-0700; modified from SM 4500-CL
IODOMETRIC
Total Chlorine

Water (Inorganic)

Solids - Water (011)
WATR-0600, WATR-0610; SM 2540 C and SM 2540 D
GRAVIMETRIC
Total Dissolved Solids
Total Suspended Solids

Water (Inorganic)

Sulphide - Water (105)
WATR-0100; modified from SM 4500-S2- D
COLORIMETRIC
Sulphide

Water (Inorganic)

Total Hexavalent Chromium - Water (235)
WATR-0300; modified from SM 3500-CR
COLORIMETRIC
Hexavalent Chromium

Water (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Water (009)
INST-0430, INST-0520; modified from EPA 351.2
AUTO COLOR - DIGESTION
Total Kjeldahl Nitrogen

Water (Inorganic)

Total Metals - Water (143)
INST-0140, WATR-0200; modified from SM 3120
ICP/OES - NITRIC ACID DIGESTION
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silicon

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Silver
Sodium
Strontium
Sulfur
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Total Metals - Water (144)

INST-0141, WATR-0200; modified from SM 3125

ICP/MS - NITRIC ACID DIGESTION

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

Water (Inorganic)

Turbidity - Water (107)

WATR-0500; SM 2130 B

NEPHELOMETRY

Turbidity

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Water (Microbiology)

Coliforms - Water (208)

MIC-0205; SM 9223

MOST PROBABLE NUMBER (COLILERT - QUANTI-TRAY)

Escherichia coli (E. coli)

Fecal (Thermotolerant) Coliforms

Total Coliforms

Water (Microbiology)

Heterotrophic Plate Count (HPC) - Water (068)

MIC-0300; modified from SM 9215 C

SPREAD PLATE

Heterotrophic Plate Count (HPC)

Water (Organic)

Alcohols - Water (166)

TO-1420; EPA 5021 and EPA 8015B

GC/FID

1-Butanol

2-Butanol

Ethanol

Isobutanol

Isopropanol

Methanol

Pentanol

Propanol

tert-Butyl alcohol

Water (Organic)

Base Neutral Extractables - Water [Wastewater] (201)

TO1500; modified from EPA 8270D

GC/MS

1,2-Dichlorobenzene

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-Dichlorobenzene

1,3,5-Trichlorobenzene

1,4-Dichlorobenzene

Hexachlorobenzene

Hexachlorobutadiene

Hexachlorocyclopentadiene

Hexachloroethane

Pentachlorobenzene

Water (Organic)

Ethanolamines - Water (210)

TO-2240; IN-HOUSE

HPLC

Diethanolamine

Diisopropanolamine

Monoethanolamine (MEA)

Monoisopropanolamine

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Water (Organic)

Glycols - Water (162)

TO-1410; modified from NIOSH 5523

GC/FID

Diethylene glycol

Ethylene glycol

Propylene glycol

Tetraethylene glycol

Triethylene glycol

Water (Organic)

Glyphosate - Water (169)

TO-1320; OSHA PV2067

HPLC

Glyphosate

OSDWA †

Water (Organic)

Nitrilotriacetic Acid (NTA) - Water (218)

TO-3503; IN-HOUSE

HPLC

Nitrilotriacetic acid (NTA)

Water (Organic)

Nitroaromatics and Nitramines and Nitrate Esters - Water (204)

TO-1100, TO-2100; EPA 8330

HPLC

1,3-Dinitrobenzene (1,3-DNB)

1,3,5-Trinitrobenzene (1,3,5-TNB)

2-A-4, 6-DNT (2-am-dnt)

2-Nitrotoluene (2-NT)

2,4-DNT

2,4,6-TNT

2,6-DNT

3-Nitrotoluene

3,5-DNA

4-A-2, 6-DNT (4-am-dnt)

4-Nitrotoluene

Cyclotetramethylenetetranitramine (HMX)

Nitrobenzene

Nitroglycerin

PETN

RDX

Tetryl

Water (Organic)

Phenols - Water [Wastewater] (198)

TO-1100, TO-1200; IN-HOUSE

HPLC/UV - EXTRACTION

2-Chlorophenol

2-Methyl-4,6-dinitrophenol

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

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2,3,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,6-Dichlorophenol
3,4,5-Trichlorophenol
4-Chloro-3-methyl phenol
4-Nitrophenol
Dinoseb
m,p-Cresol
Pentachlorophenol
Phenol

Water (Organic)

Polychlorinated Biphenyls (PCB) - Water (160)

TO-0400; modified from EPA 8082

GC/ECD

Arochlor 1016
Arochlor 1221
Arochlor 1232
Arochlor 1262
Arochlor 1268
Arochlor 1242
Arochlor 1248
Arochlor 1254
Arochlor 1260
Total PCB

Water (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Water (014)

TO-0200; modified from EPA 3510B and EPA 3511 and EPA 8270C

GC/MS - EXTRACTION

1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo(e)pyrene
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

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Quinoline

Water (Organic)

Sterilant Herbicides - Water (194)

TO-1315; IN-HOUSE

HPLC

Atrazine

Bromacil

Diuron

Linuron

Simazine

Tebuthiuron

Water (Organic)

Sulfolane - Water (240)

TO-3501; IN-HOUSE

GC/MS

Sulfolane

Water (Organic)

Total Amines - Water (142)

TO-1400; IN-HOUSE

GC/FID - EXTRACTION

Diethanolamine

Diethylethanolamine

Diisopropanolamine

Ethanolamine

Methyl diethanolamine

Monoisopropylamine

Sulfolane

Water (Organic)

Total Extractable Hydrocarbons (TEH) - Water (066)

TO-0511; modified from AEC V92-M2 and BC MOE CONTAMINATED SITES REGULATION (CSR) and EPA 3510

GC/FID - EXTRACTION

C10-C32

EPH C10-C19

EPH C19-C32

F2: C10-C16

F3: C16-C34

F4: C34-C50

SASK (C11-C22)

SASK (C23-C60)

Water (Organic)

Total Purgeable Hydrocarbons (TPH) - Water (065)

TO-0540; modified from EPA 5030B and EPA 8260B

GC/FID - PURGE AND TRAP

F1: C6-C10

TPGH (C5-C10)

Volatile Hydrocarbons (VH): C6-C10

Water (Organic)

Total Purgeable Hydrocarbons (TPH) - Water (150)

TO-0542; modified from BC MOE LABORATORY MANUAL and EPA 5021A and EPA 8260

GC/MS - HEADSPACE

F1: C6-C10

TPGH (C5-C10)

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Volatile Hydrocarbons (VH): C6-C10

Water (Organic)

Volatile Organic Acids - Water (212)

TO-2230; IN-HOUSE

ION CHROMATOGRAPHY

Acetic acid

Butiric acid

Caproic acid

Formic acid

Isobutyric acid

Isovaleric acid

Propionic acid

Valeric acid

Water (Organic)

Volatile Organic Compounds (VOC) - Water (125)

TO-0330; modified from EPA 5030C 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-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,2,4-Trichlorobenzene

1,3-Dichlorobenzene

1,4-dichlorobenzene

2-Hexanone (MBK)

Acetone (2-Propanone)

Benzene

Bromodichloromethane

Bromoform

Bromomethane

Carbon Tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethane

Chloroform

Chloromethane

cis-1,2-Dichloroethylene

cis-1,3-Dichloropropene

Dibromochloromethane

Dichloromethane

Ethylbenzene

Ethylene Dibromide

m/p-xylene

Methy t-butyl ether (MTBE)

Methyl Ethyl Ketone

Methyl isobutyl Ketone

Methyl t-butyl ether

o-xylene

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

Water (Organic)

Volatile Organic Compounds (VOC) - Water (153)
TO-0332; modified from EPA 5021A and EPA 8260C
GC/MS - HEADSPACE

1,1-Dichloroethane
1,1-dichloroethylene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,2-Dibromomethane
1,2-dichlorobenzene
1,2-dichloroethane
1,2-Dichloropropane
1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,4-dichlorobenzene
2-Hexanone (MBK)
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichloromethane
Ethylbenzene
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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Water (Toxicology)

Microtox - Water (020)

TOX-0100; EPS 1/RM/24

BIOLUMINESCENCE

Microtox IC50 (15 min)

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