



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 3788  
**Laboratory Name:** AGAT Laboratories - Burnaby  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** March 21, 2018  
**Valid To:** August 25, 2019

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### Scope of Accreditation

#### Air (Organic)

Volatile Organic Compounds (VOC) - Soil Vapour (001)  
ORG-180-5170; modified from EPA TO-17 and BC MOE LAB MANUAL SECTION H  
GC/MS - THERMAL DESORPTION

- 1-Chlorobutane
- 1-Chlorohexane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 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
- 1,2-Dibromoethane
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,2,3-Trichlorobenzene
- 1,2,3-Trichloropropane
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,2:3,4-Diepoxybutane
- 1,3-Butadiene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,3,5-Trimethylbenzene

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1,4-Dichlorobenzene  
2-Butanone (MEK)  
2-Chlorotoluene  
2,2-Dichloropropane  
4-Chlorotoluene  
4-Methyl-2-pentanone (MIBK)  
Acetone  
Acetonitrile  
Acrylonitrile  
Allyl chloride  
Benzene  
Benzylchloride  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-dichloroethene  
cis-1,3-Dichloropropene  
cis-1,4-Dichloro-2-butene  
Dibromochloromethane  
Dibromofluoromethane  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane  
Diethyl ether  
Epichlorohydrin  
Ethyl acetate  
Ethyl methacrylate  
Ethylbenzene  
Hexachlorobutadiene  
Hexachloroethane  
Isobutanol  
Isopropylbenzene  
m,p-Xylene  
Methacrylonitrile  
Methyl acrylate  
Methyl methacrylate  
Methyl t-butyl ether (MTBE)  
Methylcyclohexane  
n-Butylbenzene  
n-Decane  
n-Hexane  
n-Propylbenzene  
Naphthalene  
Nitrobenzene  
o-Xylene

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p-Isopropyltoluene  
Pentachloroethane  
Pentafluorobenzene  
Propionitrile  
Pyridine  
sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Tetrachloroethene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
trans-1,4-Dichloro-2-butene  
Trichloroethene  
Trichlorofluoromethane  
Vinyl chloride  
Volatile Hydrocarbons (VH): C6-C13

**Paint (Inorganic)**

Lead - Paint (072)

LAB-181-4020, MET-181-6101; modified from NIOSH 7105 and EPA 6010  
ICP/OES - DIGESTION

Lead

**Solids (Inorganic)**

Acid Base Accounting (ABA) - Soil, Sediment, Sludge, Rock, Tailings, Waste Rock and Ore (078)

ARD-181-18003; SOBEK ET AL (EPA 600/2-78-054) (1978)

pH METER

Paste pH

**Solids (Inorganic)**

Acid Base Accounting (ABA) - Soil, Sediment, Sludge, Rock, Tailings, Waste Rock and Ore (079)

ARD-181-18009, INOR-181-6028; modified from MEND REPORT 1.20.1 (2009) and SM 4500-SO4 E  
SPECTROPHOTOMETRIC - DIGESTION

Sulphate-Sulphur

**Solids (Inorganic)**

Boron (Hot Water Soluble) - Soil (048)

LAB-181-4011, MET-181-6101; BC MOE LAB MANUAL SECTION C (BORON, HOT WATER SOLUBLE) and  
EPA 6010C

ICP - HOT WATER EXTRACTION

Boron

**Solids (Inorganic)**

Carbon-Nitrogen-Sulphur Speciation - Soil, Sediment, Sludge, Rock, Tailings, Waste Rock and Ore (080)

INOR-181-6027; modified from ASTM E1915-11 and ASTM E1019-11

COMBUSTION - TC

Total Carbon

Total Nitrogen

Total Sulphur

**Solids (Inorganic)**

Chloride - Saturated Paste (098)

LAB-181-4022, INOR-181-6023; BC MOE LAB MANUAL SECTION B

COLORIMETRIC

Chloride

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**Solids (Inorganic)**

Conductivity - Saturated Paste Extract (095)  
LAB-181-4022; BC MOE LAB MANUAL SECTION B  
CONDUCTIVITY METER  
Conductivity

**Solids (Inorganic)**

Cyanide - Soil (058)  
LAB-181-4013, INOR-181-6010; modified from EPA 9013A and EPA 335.3  
FLOW CHEMISTRY  
Cyanide (SAD)  
Cyanide (WAD)

**Solids (Inorganic)**

Fluoride - Soil (060)  
INOR-181-6002, LAB-181-4014; BC MOE LAB MANUAL SECTION B (FLUORIDE IN SOILS BY 5:1 AQUEOUS  
EXTRACTION) and SM 4110  
ION CHROMATOGRAPHY - 5:1 AQUEOUS EXTRACTION  
Fluoride

**Solids (Inorganic)**

Hexavalent Chromium - Soil (049)  
INOR-181-6029, LAB-181-4016; EPA 3060A and modified from SM 3500-CR B  
COLORIMETRIC - EXTRACTION  
Hexavalent chromium

**Solids (Inorganic)**

Metals - Saturated Paste (097)  
LAB-181-4022, INOR-181-6101; BC MOE LAB MANUAL SECTION B  
ICP/OES  
Calcium  
Magnesium  
Potassium  
Sodium  
Sulphur

**Solids (Inorganic)**

Metals - Soil (005)  
LAB-181-4008, MET-181-6102; BC MOE LAB MANUAL SECTION C (SALM) and EPA 200.2 and EPA 6020A  
ICP/MS - DIGESTION  
Antimony  
Arsenic  
Barium (Parameter suspended on 3/7/2018)  
Beryllium  
Bismuth  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Lead  
Lithium  
Mercury  
Molybdenum  
Nickel  
Selenium  
Silver  
Thallium

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Tin  
Tungsten  
Uranium  
Vanadium  
Zinc  
Zirconium

**Solids (Inorganic)**

Metals - Soil (008)

LAB-181-4008, MET-181-6101; BC MOE LAB MANUAL SECTION C (SALM) and EPA 200.2 and EPA 6010C  
ICP/OES - DIGESTION

Aluminum (Parameter suspended on 3/7/2018)  
Barium  
Calcium  
Chromium (Parameter suspended on 3/7/2018)  
Copper  
Iron  
Magnesium  
Manganese  
Nickel  
Potassium  
Sodium  
Strontium  
Titanium  
Vanadium  
Zinc

**Solids (Inorganic)**

Metals - Solids, Leachate (007)

LAB-181-4001, MET-181-6102; EPA 1311 (LEACH) and modified from EPA 6020A (ANALYSIS)  
ICP/MS - TCLP

Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Mercury  
Nickel  
Selenium  
Silver  
Thallium  
Uranium  
Vanadium  
Zinc  
Zirconium

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**Solids (Inorganic)**

Modified Acid Base Accounting (ABA) - Soil, Sediment, Sludge, Rock, Tailings, Waste Rock and Ore (077)  
ARD-181-18000; MEND PROJECT 1.16.1A (1989)

TITRATION

Neutralization Potential (NP)

**Solids (Inorganic)**

Moisture - Soil (009)

INOR-181-6030; ASTM D2974-07A

GRAVIMETRIC

Moisture %

**Solids (Inorganic)**

Oil and Grease - Soil (056)

ORG-180-5104; modified from BC MOE LAB MANUAL SECTION D (OIL & GREASE IN SOLIDS BY HEXANE EXTRACTION)

GRAVIMETRIC - EXTRACTION

Mineral Oil and Grease

Total Oil and Grease

**Solids (Inorganic)**

Percent Saturation - Saturated Paste (096)

LAB-181-4022; BC MOE LAB MANUAL SECTION B

GRAVIMETRIC

% Saturation

**Solids (Inorganic)**

pH - Saturated Paste (094)

LAB-181-4022; BC MOE LAB MANUAL SECTION B

pH METER

pH

**Solids (Inorganic)**

pH - Soil (011)

INOR-181-6031; BC MOE LAB MANUAL SECTION B (PH, ELECTROMETRIC, SOIL & SEDIMENT-PRESCRIPTIVE)

METER - EXTRACTION

pH (1:2)

**Solids (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Soil (068)

INOR-181-6034, LAB-181-4017; modified from EPA 351.2

AUTO COLOR

Total Kjeldahl Nitrogen (TKN)

**Solids (Inorganic)**

Waste Oil - Solids (016)

ORG-180-5120; BC MOE LAB MANUAL SECTION D (WASTE OIL CONTENT IN SOLIDS)

GRAVIMETRIC - EXTRACTION

Waste Oil Content

**Solids (Microbiology)**

Fecal (Thermotolerant) Coliforms - Solids (070)

MIC-181-7007; SM 9221 E

MULTIPLE TUBE FERMENTATION (MPN)

Fecal Coliforms

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**Solids (Microbiology)**

Salmonella - Solids (069)

MIC-181-7008; SM 9260 B

MULTIPLE TUBE TECHNIQUE (MPN)

Salmonella

**Solids (Organic)**

BTEX and Volatile Petroleum Hydrocarbons (VPH) and Volatile Hydrocarbons (VH) - Soil (012)

ORG-180-5100; modified from BC MOE LAB MANUAL SECTION D(BTEX, VPH)

GC/MS/FID - HEADSPACE

Benzene

Ethylbenzene

m/p-xylene

Methyl t-butyl ether

o-xylene

Styrene

Toluene

Volatile Hydrocarbons (VH): C6-C10

**Solids (Organic)**

Extractable Petroleum Hydrocarbons (EPH) - Soil (013)

ORG-180-5101; modified from BC MOE LAB MANUAL D (EPH)

GC/FID - COLD SHAKE EXTRACTION

EPH C10-C19

EPH C19-C32

**Solids (Organic)**

Glycols - Soil (085)

ORG-180-5136; modified from NON HALOGENATED ORGANICS USING GC/FID, EPA SW-846 MODULE, METHOD 8015D

GC/FID

Diethylene glycol

Ethylene glycol

Propylene glycol

Tetraethylene glycol

Triethylene glycol

**Solids (Organic)**

Leachable Polycyclic Aromatic Hydrocarbons (PAH) - Soil (089)

LAB-181-4001; EPA 1311 (LEACH)

GC/MS

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(q,h,i)perylene

Benzo(k)fluoranthene

Chrysene

Dibenzo(a,h)anthracene

Fluoranthene

Fluorene

Indeno(1,2,3-cd)pyrene

Naphthalene

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Perylene  
Phenanthrene  
Pyrene

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Soil (091)  
ORG-180-5137; CCME CWS-PHC-TIER 1 METHOD  
GC/FID  
F2: C10-C16  
F3: C16-C34  
F4: C34-C50

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Soil (090)  
ORG-180-5100; CCME CWS-PHC TIER 1 METHOD  
GC/MS/FID  
F1: C6-C10

**Solids (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Soil (014)  
ORG-180-5102; modified from BC MOE LAB MANUAL SECTION D (PAH)  
GC/MS - COLD SHAKE EXTRACTION  
1-Methylnaphthalene  
2-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  
Phenanthrene  
Pyrene  
Quinoline

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Soil (015)  
ORG-180-5103; modified from BC MOE LAB MANUAL SECTION D (VOC)  
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

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1,3-Dichlorobenzene  
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  
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  
Volatile Hydrocarbons (VH): C6-C10

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Soil (088)

LAB-180-5135; EPA 1311 (LEACH)

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-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloropropane  
1,3-Dichlorobenzene  
1,4-Dichlorobenzene  
Benzene  
Bromodichloromethane  
Bromoform  
Carbon disulfide

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Carbon tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromochloromethane  
Dichloromethane  
Ethylbenzene  
Ethylene dibromide  
m,p-Xylene  
Methyl t-butyl ether (MTBE)  
o-Xylene  
Styrene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl chloride

**Tissue (Inorganic)**

Metals - Tissue (017)

LAB-181-4007, MET-181-6101; modified from EPA 3050B and EPA 6010C

ICP/OES - DIGESTION

Calcium  
Magnesium  
Phosphorus  
Potassium  
Sodium

**Tissue (Inorganic)**

Metals - Tissue (062)

LAB-181-4007, MET-181-6102; BC MOE LAB MANUAL SECTION C and modified from EPA 6020A

ICP/MS - DIGESTION

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Manganese  
Molybdenum  
Nickel  
Selenium  
Silver  
Thallium  
Vanadium

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Zinc

**Tissue (Inorganic)**

Total Mercury - Tissue (018)

LAB-181-4007, MET-181-6100; modified from EPA 3050B and EPA 7471B  
COLD VAPOUR AA - DIGESTION

Mercury

**Water (Inorganic)**

Acidity - Water (071)

INOR-181-6020; modified from SM 2310 B  
TITRIMETRIC

Acidity

**Water (Inorganic)**

Acidity - Water (084)

INOR-181-6000; modified from SM 2310 B  
AUTO TITRIMETRIC

Acidity

**Water (Inorganic)**

Alkalinity - Water (019)

INOR-181-6000; modified from SM 2320 B  
AUTO TITRIMETRIC

Alkalinity (pH 4.5)

**Water (Inorganic)**

Ammonia - Water (020)

INOR-181-6001; modified from SM 4500-NH3 G  
SEGMENTED FLOW

Ammonia

**Water (Inorganic)**

Anions - Water (021)

INOR-181-6002; modified from SM 4110 B  
ION CHROMATOGRAPHY

Bromate

Bromide

Chloride

Fluoride

Nitrate

Nitrite

Sulfate

**Water (Inorganic)**

Biochemical Oxygen Demand (BOD) - Water (041)

INOR-181-6032; modified from BC MOE LAB MANUAL SECTION D  
D.O. METER

BOD (5 day)

CBOD (5 day)

**Water (Inorganic)**

Carbon - Water (022)

INOR-181-6003; modified from SM 5310 B  
COMBUSTION - IR

Organic Carbon

Total Carbon

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**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (023)  
INOR-181-6004; modified from SM 5220 D  
SPECTROPHOTOMETRIC  
COD

**Water (Inorganic)**

Chlorophyll A - Water (100)  
INOR-181-6025; SM 10200 H  
SPECTROPHOTOMETRIC  
Chlorophyll a

**Water (Inorganic)**

Colour - Water (063)  
INOR-181-6033; modified from BC MOE LAB MANUAL SECTION B (COLOUR, SINGLE WAVELENGTH)  
SPECTROPHOTOMETRIC (UV-VIS)  
Apparent Colour  
True Colour

**Water (Inorganic)**

Conductivity - Water (024)  
INOR-181-6000; modified from SM 2510 B  
CONDUCTIVITY METER  
Conductivity (25°C)

**Water (Inorganic)**

Conductivity - Water (082)  
ARD-181-18012; SM 2510 B  
CONDUCTIVITY METER  
Conductivity (25°C)

**Water (Inorganic)**

Cyanide - Water (025)  
INOR-181-6010; modified from EPA 335.3  
FLOW CHEMISTRY  
Cyanide (SAD)  
Cyanide (WAD)

**Water (Inorganic)**

Dissolved Mercury - Water (027)  
LAB-181-4015, MET-181-6100; modified from EPA 245.7  
COLD VAPOUR AA  
Mercury

**Water (Inorganic)**

Dissolved Metals - Water (028)  
LAB-181-4015, MET-181-6102; modified from SM 3125 B  
ICP/MS  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper

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Iron  
Lead  
Lithium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Selenium  
Silver  
Strontium  
Thallium  
Tin  
Titanium  
Tungsten  
Uranium  
Vanadium  
Zinc  
Zirconium

**Water (Inorganic)**

Dissolved Metals - Water (029)

LAB-181-4015, MET-181-6101; modified from SM 3120 B

ICP/OES

Calcium

Iron

Magnesium

Manganese

Phosphorus

Potassium

Silicon

Sodium

Sulphur

**Water (Inorganic)**

Hexavalent Chromium - Water (030)

INOR-181-6005; modified from SM 3500-CR B

COLORIMETRIC

Hexavalent Chromium

**Water (Inorganic)**

Nitrite and Nitrate and Nitrate plus Nitrite - Water (099)

INOR-181-6026; modified from SM 4500-NO3- F and SM 4500-NO2- B

COLORIMETRIC

Nitrate (calculation)

Nitrate plus Nitrite

Nitrite

**Water (Inorganic)**

Nitrogen - Water (031)

INOR-181-6006; modified from SM 4500-N

COMBUSTION - IR

Total Dissolved Nitrogen

Total Nitrogen

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**Water (Inorganic)**

Oil and Grease - Water (045)

ORG-180-5132; modified from BC MOE LAB MANUAL SECTION D (OIL & GREASE IN WATER BY HEXANE EXTRACTION & GRAVIMETRY - PBM)  
GRAVIMETRIC - EXTRACTION

Mineral Oil and Grease

Total Oil and Grease

**Water (Inorganic)**

Oxidation Reduction Potential (ORP) - Water (083)

ARD-181-18013; SM 2580 B

ORP METER

Oxidation Reduction Potential

**Water (Inorganic)**

pH - Water (032)

INOR-181-6000; modified from SM 4500-H+

pH METER

pH

**Water (Inorganic)**

pH - Water (081)

ARD-181-18011; SM 4500-H+

pH METER

pH

**Water (Inorganic)**

Phosphate - Water (066)

INOR-181-6021; modified from SM 4500-P F

AUTO COLOR

Phosphate

**Water (Inorganic)**

Phosphorus - Water (033)

LAB-181-4015, INOR-181-6011; modified from SM 4500-P B and SM 4500-P F

AUTO COLOR

Total Dissolved Inorganic Phosphorus

Total Dissolved Phosphorus

Total Inorganic Phosphorus

Total Phosphorus

**Water (Inorganic)**

Reactive Silica - Water (034)

INOR-181-6012; modified from SM 4500-SIO2

AUTO COLOR

Reactive Silica

**Water (Inorganic)**

Solids - Water (035)

INOR-181-6007; SM 2540 C and SM 2540 D and SM 2540 E

GRAVIMETRIC

Fixed Solids

Total Dissolved Solids

Total Suspended Solids

Volatile Solids

Volatile Suspended Solids

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**Water (Inorganic)**

Sulphide - Water (101)  
INOR-181-6035; modified from SM 4500-S2- D  
COLORIMETRIC  
Sulphide

**Water (Inorganic)**

Tannin and Lignin - Water (075)  
INOR-181-6018; modified from SM 5550 B  
SPECTROPHOTOMETRIC  
Tannin and Lignin

**Water (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Water (074)  
INOR-181-6034, LAB-181-4017; modified from EPA 351.2  
AUTO COLOR  
Total Kjeldahl Nitrogen

**Water (Inorganic)**

Total Mercury - Seawater (061)  
MET-181-6100; modified from EPA 245.7  
COLD VAPOUR AA - DIGESTION  
Mercury

**Water (Inorganic)**

Total Mercury - Water (037)  
MET-181-6100; modified from EPA 245.7  
COLD VAPOUR AA - DIGESTION  
Mercury

**Water (Inorganic)**

Total Metals - Seawater (057)  
LAB-181-4009, MET-181-6102; modified from SM 3125 B  
ICP/MS - DIGESTION  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Manganese  
Molybdenum  
Nickel  
Selenium  
Silver  
Strontium  
Thallium  
Tin  
Titanium  
Tungsten

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Uranium  
Vanadium  
Zinc  
Zirconium

**Water (Inorganic)**

Total Metals - Water (038)

LAB-181-4009, MET-181-6102; modified from SM 3125 B

ICP/MS

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

**Water (Inorganic)**

Total Metals - Water (039)

LAB-181-4009, MET-181-6101; modified from SM 3120 B

ICP/OES - DIGESTION

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron

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

**Water (Inorganic)**

Turbidity - Water (040)  
INOR-181-6008; BC MOE LAB MANUAL SECTION B  
TURBIDIMETRIC  
Turbidity

**Water (Microbiology)**

Coliforms - Water (052)  
MIC-181-7004; SM 9223 B  
ENZYME SUBSTRATE (MPN)  
Escherichia coli (E. coli)  
Total Coliforms

**Water (Microbiology)**

Coliforms - Water (065)  
MIC-181-7003; SM 9222 B and SM 9222 G  
MEMBRANE FILTRATION (mENDO)  
Escherichia coli (E. coli)  
Total Coliforms

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (053)  
MIC-181-7005; SM 9222 D  
MEMBRANE FILTRATION (mFC)  
Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Heterotrophic Plate Count (HPC) - Water (043)  
MIC-181-7002; SM 9215 E  
ENZYME SUBSTRATE  
Heterotrophic Plate Count (HPC)

**Water (Microbiology)**

Heterotrophic Plate Count (HPC) - Water (087)  
MIC-181-7012; SM 9215 C  
SPREAD PLATE  
Heterotrophic Plate Count (HPC)

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**Water (Organic)**

BTEX - Water (044)

ORG-180-5130; modified from EPA 8260C and EPA 5012A

GC/MS - HEADSPACE

Benzene

Ethylbenzene

m/p-xylene

Methyl t-butyl ether

o-xylene

Styrene

Toluene

**Water (Organic)**

Extractable Petroleum Hydrocarbons (EPH) - Water (064)

ORG-180-5134; modified from BC MOE LAB MANUAL D (EPH)

GC/FID - EXTRACTION

EPH C10-C19

EPH C19-C32

**Water (Organic)**

Glycols - Water (086)

ORG-180-5136; modified from NON HALOGENATED ORGANICS USING GC/FID, EPA SW-846 MODULE,

METHOD 8015D

GC/FID

Diethylene glycol

Ethylene glycol

Propylene glycol

Tetraethylene glycol

Triethylene glycol

**Water (Organic)**

Petroleum Hydrocarbons (PHC) - Water (092)

ORG-180-5130; BC LAB MANUAL and EPA 8260C and EPA 5021A

GC/MS/FID

F1: C6-C10

**Water (Organic)**

Petroleum Hydrocarbons (PHC) - Water (093)

ORG-180-5134; BC LAB MANUAL

GC/FID

F2: C10-C16

F3: C16-C34

F4: C34-C50

**Water (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Water (047)

ORG-180-5133; modified from BC MOE LAB MANUAL SECTION D (PAH IN WATER BY GC/MS-PBH)

GC/MS - EXTRACTION

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

Acridine

Anthracene

Benzo (a) anthracene

Benzo (a) pyrene

Benzo (b) fluoranthene

Benzo (g,h,i) perylene

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Benzo (k) fluoranthene  
Chrysene  
Dibenzo (a,h) anthracene  
Fluoranthene  
Fluorene  
Indeno (1,2,3 - cd) pyrene  
Naphthalene  
Phenanthrene  
Pyrene  
Quinoline

**Water (Organic)**

Volatile Hydrocarbons (VH) - Water (076)

ORG-180-5130; modified from BC MOE LAB MANUAL SECTION D (VH IN WATER BY GC/FID)  
GC/FID - HEADSPACE

Volatile Hydrocarbons (VH): C6-C10

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (046)

ORG-180-5131; modified from BC MOE LAB MANUAL SECTION D (VOC IN WATER BY PURGE and TRAP  
GC/MS-PBM)

GC/MS - PURGE AND TRAP

1,1-Dichloroethane  
1,1-dichloroethylene  
1,1,1-Trichloroethane  
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  
Acetone (2-Propanone)  
Benzene  
Bromodichloromethane  
Bromoform  
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

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Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl Chloride  
Volatile Hydrocarbons (VH): C6-C10

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