



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 3588
Laboratory Name: AGAT Laboratories (Dartmouth)
Parent Institution: AGAT Laboratories Ltd.
Address: 11 Morris Drive Unit 122 Dartmouth NS B3B 1M2
Contact: Ms. Pam Reyno
Phone: (902) 468-8718
Fax: (902) 468-8924
Email: reyno@agatlabs.com; vhill@agatlabs.com

Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: September 20, 2018
Valid To: April 3, 2019

Scope of Accreditation

Air (Inorganic)

Total Suspended Particulates - Air [Particulate] (128)
INOR-121-6041; EPA 5
GRAVIMETRIC
Particulate

Air (Organic)

Total Petroleum Hydrocarbons (TPH) - Air (087)
ORG-120-5109; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2
PETROLEUM HYDROCARBONS METHODS and NIOSH 1500
GC/FID
Aliphatic >C10-C12
Aliphatic >C12-C16
Aliphatic >C16-C21
Aliphatic C6-C8
Aliphatic >C8-C10
Aromatic >C10-C12
Aromatic >C12-C16
Aromatic >C8-C10
Benzene
>C10-C21
>C6-C10
Ethylbenzene
m,p-Xylene
o-Xylene
Toluene

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Air Filter

Metals - Air [Filter] (121)

MET-121-6105, MET-121-6112; modified from NIOSH 7303 and SM 3125

ICP/MS - DIGESTION

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

Oil (Organic)

Total Polychlorinated Biphenyls (PCB) - Oil (001)

ORG-120-5107; modified from ALBERTA ENVIRONMENT M106.0 and ASTM D4059-00

GC/ECD - EXTRACTION

Total PCB

Paint (Inorganic)

Mercury - Paint (108)

MET-121-6101, MET-121-6107; modified from DETERMINATION OF TOTAL MERCURY IN PAINT & APPLIED COATINGS, PRODUCT SAFETY BUREAU REF. MANUAL BOOK 5, HEALTH CANADA

COLD VAPOUR AA - DIGESTION

Mercury

Paint (Inorganic)

Metals - Paint (075)

MET-121-6103, MET 121-6105; modified from EPA 3050B and EPA 6020A and SM 3125

ICP/MS

Arsenic
Bismuth
Cadmium
Copper
Lead
Lithium
Molybdenum
Phosphorus
Rubidium
Selenium

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Silver
Sodium
Thallium
Tin
Uranium
Vanadium

Paint (Organic)

Total Polychlorinated Biphenyls (PCB) - Paint (105)
ORG-120-5107; modified from EPA 3510C and EPA 8082A
GC/ECD - EXTRACTION
Total PCB

Solids (Inorganic)

Grain Size - Solids [Soil] (095)
INOR-121-6034; ASTM D422-63
SIEVE AND PIPETTE
0 PHI (<1)
1 PHI (<1/2)
-1 PHI (<2)
2 PHI (<1/4)
-2 PHI (<4.75)
3 PHI (<1/8)
-3 PHI (<9.5)
4PHI (<1/16)
-4PHI (<12.5)
5 PHI (<1/32)
6 PHI (<1/64)
7 PHI (<1/128)
8 PHI (<1/256)
9 PHI (<1/512)
% clay
Gravel
% Sand
Silt

Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (101)
INOR-121-6029; modified from SSSA BOOK 5, CH 25, P683
AUTO COLOR
Hexavalent chromium

Solids (Inorganic)

Leachable Mercury - Solids [Soil] (084)
MET-121-6107, INOR-121-6039; EPA 1311 and EPA 245.1 and SM 3112 B
COLD VAPOUR AA - TCLP
Mercury

Solids (Inorganic)

Leachable Mercury - Solids [Soil] (085)
MET-121-6107, INOR-121-6036; modified from EPA 1312 and EPA 245.1 and SM 3112 B
COLD VAPOUR AA - SPLP
Mercury

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Solids (Inorganic)

Leachable Mercury - Solids [Soil] (086)

MET-121-6107, INOR-121-6040; modified from CGSB and EPA 245.1 and SM 3112 B

COLD VAPOUR AA - CGSB

Mercury

Solids (Inorganic)

Leachable Metals - Solids [Soil] (077)

MET-121-6105, INOR-121-6039; EPA 1311 and SM 3030 B and SM 3030 F and SM 3125

ICP/MS - TCLP

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Rubidium

Selenium

Silver

Strontium

Thallium

Tin

Titanium

Uranium

Vanadium

Zinc

Solids (Inorganic)

Leachable Metals - Solids [Soil] (078)

MET-121-6105, INOR-121-6036; modified from EPA 1312 and SM 3030 B and SM 3030 F and SM 3125

ICP/MS - SPLP

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

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Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Rubidium
Selenium
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Solids (Inorganic)

Leachable Metals - Solids [Soil] (079)

MET-121-6105, INOR-121-6040; modified from CGSB 164-GP-1MP and SM 3030 B and SM 3030 F and SM 3125

ICP/MS - Leachable CGSB

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

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Solids (Inorganic)

Mercury - Solids (204)

MET-121-6114, MET-121-6115; EPA 1631

COLD VAPOUR ATOMIC FLUORESCENCE SPECTROPHOTOMETRY

Mercury

Solids (Inorganic)

Mercury - Solids [Soil] (004)

MET-121-6107, MET-121-6101; modified from EPA 245.5 and SM 3112 B

COLD VAPOUR AA - DIGESTION

Mercury

Solids (Inorganic)

Metals - Solids [Soil] (005)

MET-121-6105, MET-121-6103; modified from EPA 3050B and EPA 6020A and SM 3125

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silver

Sodium

Strontium

Tellurium

Thallium

Tin

Uranium

Vanadium

Zinc

Zirconium

Solids (Inorganic)

Methyl Mercury - Solids (201)

MET-121-6116, MET-121-6117; EPA 1630

COLD VAPOUR ATOMIC FLUORESCENCE SPECTROPHOTOMETRY

Methyl Mercury

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Solids (Inorganic)

pH - Solids [Sediment, Soil] (076)

INOR-121-6006; modified from CANADIAN SOCIETY OF SOIL SCIENCE - P155

METER

Soil pH

Solids (Inorganic)

Phenols - Solids [Soil] (091)

INOR-121-6011; modified from EPA 9065

AUTO COLOR

Total Phenolics

Solids (Inorganic)

Total Oil and Grease - Solids [Sediment, Soil] (073)

ORG-120-5105; IN-HOUSE

GRAVIMETRIC

Total Oil and Grease

Solids (Organic)

BTEX - Solids (175)

VOL-120-5031; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM

HYDROCARBONS METHODS

GC/MS - HEADSPACE

Benzene

Ethylbenzene

m/p-xylene

o-xylene

Toluene

Solids (Organic)

Extractable Petroleum Hydrocarbons (EPH) Fractionation - Solids [Soil] (058)

ORG-120-5101; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2

PETROLEUM HYDROCARBONS METHODS

GC/FID - EXTRACTION

Aliphatic >C10-C12

Aliphatic >C12-C16

Aliphatic >C16-C21

Aliphatic >C21-C32

Aromatic >C10-C12

Aromatic >C12-C16

Aromatic >C16-C21

Aromatic >C21-C32

>C10-C16

>C16-C21

Fuel Oil (>C10-C21)

Lube Oil (>C21-C32)

Solids (Organic)

Organochlorine (OC) Pesticides - Solids [Soil] (100)

ORG-120-5108; modified from EPA 3510C and EPA 8080 and EPA 8081A

GC/ECD - EXTRACTION

a-BHC

a-Chlordane

Aldrin

b-BHC

d-BHC

Dieldrin

Endosulfan I

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Endosulfan II
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Endrin Keytone
g-BHC (Lindane)
g-Chlordane
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Methoxychlor
Mirex
o,p'-DDD
o,p'-DDE
o,p'-DDT
Oxychlordane
p,p'-DDD
p,p'-DDE
p,p'-DDT
Trifluralin

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids (174)
VOL-120-5031; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM
HYDROCARBONS METHODS
GC/FID - HEADSPACE
F1: C6-C10

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids (176)
VOL-120-5031; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - HEADSPACE
F1: C6-C10

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (050)
ORG-120-5102; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - SHAKE EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (059)
ORG-120-5105; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC - SHAKE EXTRACTION
F4: Gravimetric

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (116)
VOL-120-5015; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - PURGE AND TRAP
F1: C6-C10

Solids (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (008)
ORG-120-5104; modified from EPA 3510 and EPA 3541 and EPA 8270C
GC/MS - EXTRACTION
1-Chloronaphthalene

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1-Methylnaphthalene
2-Chloronaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo(b,i)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
Quinoline

Solids (Organic)

Total Polychlorinated Biphenyls (PCB) - Solids [Soil] (009)
ORG-120-5106; modified from EPA 3510C and EPA 8082
GC/ECD - EXTRACTION
Total PCB

Solids (Organic)

Volatile BTEX and Methyl t-butyl ether (MTBE) - Solids [Soil] (011)
VOL-120-5013; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2
PETROLEUM HYDROCARBONS METHODS
GC/MS - PURGE AND TRAP
Benzene
Ethylbenzene
m/p-xylene
Methyl t-butyl ether
o-xylene
Toluene

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (014)
VOL-120-5002; modified from EPA 5035 and EPA 8260B
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

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1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-dichlorobenzene
2-Chloroethyl vinyl ether
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
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-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

Solids (Organic)

Volatile Petroleum Hydrocarbons (VPH) Fractionation - Solids [Soil] (063)
VOL-120-5013; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2
PETROLEUM HYDROCARBONS METHODS
GC/FID - PURGE AND TRAP
Aliphatic C6-C8
Aliphatic >C8-C10
Aromatic >C8-C10
F1: C6-C10

Swab (Inorganic)

Metals - Solids [Swab] (129)
MET-121-6105, MET-121-6112; modified from NIOSH 9102 and SM 3125 B
ICP/MS - DIGESTION
Aluminum
Barium
Beryllium
Cadmium
Cobalt

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Iron
Lead
Manganese
Molybdenum
Nickel
Silver
Thallium
Tin
Titanium
Uranium

Swab (Organic)

Polychlorinated Biphenyls (PCB) - Solids [Swab] (149)
ORG-120-5107; EPA 8081 and EPA 8082
GC/ECD
Total PCB

Tissue (Inorganic)

Mercury - Tissue (099)
MET-121-6101, MET-121-6107; modified from DETERMINATION OF TOTAL MERCURY IN PAINTS, PRODUCT SAFETY BUREAU REFERENCE MANUAL BOOK 5 - HEALTH CAN and EPA 245.6
COLD VAPOUR AA
Mercury

Tissue (Inorganic)

Mercury - Tissue (205)
MET-121-6114, MET-121-6115; EPA 1631
COLD VAPOUR ATOMIC FLUORESCENCE SPECTROPHOTOMETRY
Mercury

Tissue (Inorganic)

Metals - Tissue (098)
MET-121-6103, MET-121-6105; modified from EPA 200.8 and EPA 3050
ICP/MS - DIGESTION
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Rubidium
Selenium

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Silver
Sodium
Strontium
Tellurium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Tissue (Inorganic)

Methyl Mercury - Tissue (202)
MET-121-6116, MET-121-6117; EPA 1630
COLD VAPOUR ATOMIC FLUORESCENCE SPECTROPHOTOMETRY
Methyl Mercury

Tissue (Organic)

Organochlorine (OC) Pesticides - Tissue (183)
ORG-120-5115; modified from EPA 3510C and EPA 8080 and EPA 8081A
GC/ECD - EXTRACTION
a-Chlordane
Aldrin
b-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin Keytone
g-BHC
g-Chlordane
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Methoxychlor
Mirex
o,p'-DDD
o,p'-DDE
o,p'-DDT
Oxychlordane
p,p'-DDD
p,p'-DDE
p,p'-DDT
Trifluralin

Tissue (Organic)

Petroleum Hydrocarbons (PHC) - Tissue (097)
ORG-120-5118; modified from DETERMINATION OF PETROLEUM HYDROCARBONS IN SELECTED MARINE ORGANISMS, UNEP 1995
GC/MS
Extractable Petroleum Hydrocarbons

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Tissue (Organic)

Polychlorinated Biphenyls (PCB) - Tissue (182)

ORG-120-5117; modified from AGILENT GC/ECD ANALYSIS & CONFIRMATION OF PCBS IN FISH TISSUE and EPA 8082A

GC/ECD - EXTRACTION

Total PCB

Tissue (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Tissue (181)

ORG-120-5116; modified from AGILENT PAH ANALYSIS IN FISH BY GC/MS and EPA 8270D

GC/MS - EXTRACTION

1-Chloronaphthalene

1-Methylnaphthalene

2-Chloronaphthalene

2-Methylnaphthalene

Acenaphthalene

Acenaphthylene

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(b,i)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

Waste (Leachate)

Volatile Organic Compounds (VOC) - Leachate [Waste] (137)

VOL-120-5001, INOR-121-6039; modified from EPA 1311 and EPA 5030B and EPA 624 and EPA 8260B

GC/MS - TCLP

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

1,4-Dichlorobenzene

2-Chloroethyl vinyl ether

2-Hexanone (MBK)

Acetone (2-Propanone)

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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 (MIBK)
Methyl t-butyl ether (MTBE)
o-Xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

Waste (Organic)

BTEX and MTBE - Waste (114)

INOR-121-6036, VOL-120-5013; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS and EPA 1312
GC/MS - PURGE AND TRAP - SPLP

Benzene
Ethylbenzene
m,p-Xylene
o-Xylene
t-Butyl methyl ether (MTBE)
Toluene

Waste (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Waste (113)

INOR-121-6036, ORG-120-5101; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS and EPA 1312
GC/FID - SPLP

>C10-C16
>C10-C21
>C16-C21
>C21-C32

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Waste (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Waste (143)

INOR-121-6039, ORG-120-5101; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2

PETROLEUM HYDROCARBONS METHODS (ANALYSIS) and EPA 1311 (PREPARATION)

GC/FID-TCLP

>C10-C16

>C16-C21

>C21-C32

Waste (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Waste (144)

INOR-121-6040, ORG-120-5101; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2

PETROLEUM HYDROCARBONS METHODS and CGSB 164-GP-IMP

GC/FID

>C10-C16

>C16-C21

>C21-C32

Waste (Organic)

Polychlorinated Biphenyls (PCB) - Waste (148)

ORG-120-5106, INOR-121-6040; CGSB 164-GP-IMP and EPA 3510C and EPA 8082

GC/ECD

Total PCB

Waste (Organic)

Polychlorinated Biphenyls (PCB) - Waste (150)

ORG-120-5106, INOR-121-6039; EPA 1311 (PREPARATION) and EPA 3510C (ANALYSIS) and EPA 8082

(ANALYSIS)

GC/ECD - TCLP

Total PCB

Waste (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Waste (102)

ORG-120-5104, INOR-121-6036; modified from EPA 1312 and EPA 3510 and EPA 3541 and EPA 8270D

GC/MS - SPLP

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

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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Waste (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Waste (146)

ORG-120-5104, INOR-121-6040; CGSB 164-GP-IMP and EPA 3510 and EPA 354 and EPA 8270D

GC/MS

1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(b,i)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

Waste (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Waste (147)

ORG-120-5104, INOR-121-6039; EPA 1311 (PREPARATION) and EPA 3510 (ANALYSIS) and EPA 3541 (ANALYSIS) and EPA 8270D (ANALYSIS)

GC/MS - TCLP

1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(b,i)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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Waste (Organic)

Total Polychlorinated Biphenyls (PCB) - Waste (103)
ORG-120-5106, INOR-121-6036; modified from EPA 1312 and EPA 3510C and EPA 8082
GC/ECD - SPLP
Total PCB

Waste (Organic)

Volatile Petroleum Hydrocarbons (VPH) - Waste (118)
INOR-121-6036, VOL-120-5013; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS and EPA 1312
GC/FID - PURGE AND TRAP - SPLP
C6-C10

Waste (Organic)

Volatile Petroleum Hydrocarbons (VPH) - Waste (139)
INOR-121-6039, VOL-120-5013; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS (ANALYSIS) and EPA 1311 (PREPARATION)
GC/FID - TCLP - PURGE AND TRAP
C6-C10

Waste (Organic)

Volatile Petroleum Hydrocarbons (VPH) - Waste (140)
INOR-121-6039, VOL-120-5013; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS (ANALYSIS) and EPA 1311 (PREPARATION)
GC/MS - PURGE AND TRAP - TCLP
Benzene
Ethylbenzene
m,p-Xylene
o-Xylene
Toluene

Water (Inorganic)

Acidity - Water (179)
INOR-121-6044; SM 2310
TITRATION
Acidity

Water (Inorganic)

Alkalinity - Water (020)
INOR-121-6001; modified from SM 2320 B
TITRATION
Alkalinity (pH 4.5)

Water (Inorganic)

Ammonia - Water (021)
INOR-121-6047; modified from SM 4500-NH3 G
AUTO COLOR
Ammonia

Water (Inorganic)

Anions - Water (022)
INOR-121-6005; SM 4110 B
ION CHROMATOGRAPHY
Bromate
Bromide
Chlorate
Chloride
Chlorite
Fluoride

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Nitrate
Nitrite
Sulfate

Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water (023)
INOR-121-6023; modified from SM 5210 B
D.O. METER
BOD (5 day)
CBOD (5 day)

Water (Inorganic)

Carbon - Water (056)
INOR-121-6026; SM 5310 B
IR - COMBUSTION
Inorganic Carbon
Organic Carbon
Total Carbon

Water (Inorganic)

Carbon Dioxide - Water (180)
INOR-121-6044; SM 4500-CO2 C
TITRATION
Carbon dioxide (CO2)

Water (Inorganic)

Chemical Oxygen Demand (COD) - Water (024)
INOR-121-6013; SM 5220 D
COLOR - DIGESTION
COD

Water (Inorganic)

Chlorine - Water (188)
INOR-121-6045; modified from SM 4500-CL G
SPECTROPHOTOMETRIC
Total Chlorine

Water (Inorganic)

Colour - Water (055)
INOR-121-6014; SM 2120 C
AUTO COLOR
True Colour

Water (Inorganic)

Conductivity - Water (025)
INOR-121-6001; modified from SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Water (Inorganic)

Dissolved and Extractable Metals - Water (029)
MET-121-6104, MET-121-6105; modified from SM 3030 B and SM 3030 D and SM 3125
ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron

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Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Rubidium
Selenium
Silver
Sodium
Strontium
Tellurium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Ferrous Iron - Water (090)
INOR-121-6035; SM 3500-Fe B
SPECTROPHOTOMETRIC
Ferrous Iron

Water (Inorganic)

Hexavalent Chromium - Water (074)
INOR-121-6029; modified from SM 3500-CR B
AUTO COLOR
Hexavalent Chromium

Water (Inorganic)

Mercury - Water (032)
MET-121-6100, MET-121-6107; modified from EPA 245.1 and SM 3112 B
COLD VAPOUR AA - DIGESTION
Mercury

Water (Inorganic)

Mercury - Water (200)
MET-121-6114, MET-121-6115; EPA 1631
COLD VAPOUR ATOMIC FLUORESCENCE SPECTROPHOTOMETRY
Mercury

Water (Inorganic)

Methyl Mercury - Water (203)
MET-121-6116, MET-121-6117; EPA 1630
COLD VAPOUR ATOMIC FLUORESCENCE SPECTROPHOTOMETRY
Methyl Mercury

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Water (Inorganic)

Oil and Grease - Water (066)
ORG-120-5105; modified from EPA 1664A
GRAVIMETRIC
Mineral Oil and Grease
Total Oil and Grease

Water (Inorganic)

pH - Water (035)
INOR-121-6001; modified from SM 4500-H+ B
pH METER
pH

Water (Inorganic)

Phosphate - Water (034)
INOR-121-6012; modified from EPA 365.1 and SM 4500-P F
AUTO COLOR
Phosphate

Water (Inorganic)

Reactive Silica - Water (057)
INOR-121-6028; EPA 370.1 and SM 4500-SIO2 E
AUTO COLOR
Reactive Silica

Water (Inorganic)

Redox Potential (ORP) - Water (122)
INOR-121-6042; modified from SM 2580 B
ELECTRODE
Redox Potential

Water (Inorganic)

Solids - Water (036)
INOR-121-6024, INOR-121-6025, INOR-121-6043; modified from SM 2540 B and SM 2540 C and SM 2540 D and SM 2540 E
GRAVIMETRIC
Fixed Solids
Total Dissolved Solids
Total Solids
Total Suspended Solids
Volatile Solids
Volatile Suspended Solids

Water (Inorganic)

Sulphide - Water (187)
INOR-121-6015; modified from SM 4500-S D
SPECTROPHOTOMETRIC
Sulphide

Water (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Water (037)
INOR-121-6048; modified from SM 4500-NORG D
AUTO COLOUR
Total Kjeldahl Nitrogen

Water (Inorganic)

Total Metals - Water (030)
MET-121-6104, MET-121-6105; modified from SM 3030 B and SM 3030 D and SM 3125
ICP/MS
Aluminum

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

Water (Inorganic)

Total Phosphorus - Water (038)
INOR-121-6046; modified from EPA 365.4 and SM 4500-P E
AUTO COLOR
Total Phosphorus

Water (Inorganic)

Turbidity - Water (039)
INOR-121-6022; SM 2130 B
NEPHELOMETRY
Turbidity

Water (Microbiology)

Coliforms - Water (081)
MIC-121-7000; modified from SM 9223 B
COLILERT - PRESENCE/ABSENCE
Escherichia coli (E. coli)
Total Coliforms

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Water (Microbiology)

Coliforms - Water (115)
MIC-121-7000; modified from SM 9223 B
COLILERT- QUANTI-TRAY (MPN)
Escherichia coli (E. coli)
Total Coliforms

Water (Microbiology)

Coliforms - Water (166)
MIC-121-7002; SM 9222 H
MEMBRANE FILTRATION (mCOLIBLUE)
Escherichia coli (E. coli)
Total Coliforms

Water (Microbiology)

Fecal (Thermotolerant) Coliforms - Water (160)
MIC-121-7001; modified from SM 9222 D
COLILERT- QUANTI-TRAY
Fecal (Thermotolerant) Coliforms

Water (Microbiology)

Fecal (Thermotolerant) Coliforms - Water (167)
MIC-121-7002; SM 9222 D
MEMBRANE FILTRATION (mFC)
Fecal (Thermotolerant) Coliforms

Water (Microbiology)

Heterotrophic Plate Count (HPC) - Water (168)
MIC-121-7002; SM 9215 D
MEMBRANE FILTRATION (mHPC)
Heterotrophic Plate Count (HPC)

Water (Microbiology)

Pseudomonas - Water (169)
MIC-121-7002; SM 9213 E
MEMBRANE FILTRATION (mPA)
Pseudomonas aeruginosa

Water (Organic)

BTEX - Water (044)
ORG-120-5113; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2
PETROLEUM HYDROCARBONS METHODS
GC/MS - PURGE AND TRAP
Benzene
Ethylbenzene
m/p-xylene
o-xylene
Toluene

Water (Organic)

Dissolved Gases - Water (178)
VOL-120-5028; modified from EPA RSK-175
GC/FID - HEADSPACE
Butane
Ethane
Methane
Propane

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Water (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Water (060)
ORG-120-5105; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
(ANALYSIS) and IN-HOUSE (PREPARATION)
GRAVIMETRIC
F4G

Water (Organic)

Extractable Petroleum Hydrocarbons (EPH) Fractionation - Water (072)
ORG-120-5101; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2
PETROLEUM HYDROCARBONS METHODS
GC/FID - EXTRACTION
Aliphatic >C10-C12
Aliphatic >C12-C16
Aliphatic >C16-C21
Aliphatic >C21-C32
Aromatic >C10-C12
Aromatic >C12-C16
Aromatic >C16-C21
Aromatic >C21-C32
>C10-C16
>C16-C21
Fuel Oil (>C10-C21)
Lube Oil (>C21-C32)

Water (Organic)

Haloacetic Acids (HAA) - Water (061)
ORG-120-5110; modified from EPA 552.3
GC/ECD
Bromoacetic acid
Bromochloroacetic acid
Chloroacetic acid
Dibromoacetic acid
Dichloroacetic acid
Trichloroacetic acid (TCAA)

Water (Organic)

Herbicides - Water (155)
ORG-120-5111; modified from EPA 515.1 and EPA 8151A
GC/ECD - EXTRACTION
2,3,4,6-Tetrachlorophenol
2,4-D
2,4-Dichlorophenol
2,4,6-Trichlorophenol
Bromoxynil
Dicamba
Diclofop-methyl (as free acid)
Dinoseb
MCPA
Pentachlorophenol
Picloram

Water (Organic)

Organochlorine (OC) Pesticides - Water (071)
ORG-120-5108; modified from EPA 3510D and EPA 8080 and EPA 8081A
GC/ECD - EXTRACTION
A -BHC

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a - Chlordane
Aldrin
beta-BHC
delta-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Endrin Keytone
q - Chlordane
Heptachlor
Heptachlor Epoxide
Hexachlorobenzene
Lindane (gamma-BHC)
Mirex
o,p' - DDT
o,p'-DDD
o,p'-DDE
Oxychlordane
p,p' - DDT
p,p' Methoxychlor
p,p'-DDD
p,p'-DDE
Total PCB

Water (Organic)

Organophosphorus (OP) Pesticides - Water (156)
ORG-120-5112; modified from EPA 3510C and EPA 8141A and EPA 8270C
GC/MS - EXTRACTION
Azinphos-methyl
Chlorpyrifos (ethyl)
Diazinon
Dimethoate
Malathion
Parathion (ethyl)
Phorate
Terbufos

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (080)
ORG-120-5103; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
(ANALYSIS) and IN-HOUSE (PREPARATION)
GC/FID - SHAKE EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (120)
VOL-120-5015; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD (ANALYSIS) and IN-
HOUSE (PREPARATION)
GC/FID - PURGE AND TRAP
F1: C6-C10

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Water (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Water (042)

ORG-120-5104; modified from EPA 3510C and EPA 3541 and EPA 8270D

GC/MS - EXTRACTION

1-Chloronaphthalene
1-Methylnaphthalene
2-Chloronaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo(b,i)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
Quinoline

Water (Organic)

Total Polychlorinated Biphenyls (PCB) - Water (043)

ORG-120-5106; modified from EPA 3510C and EPA 8082

GC/ECD - EXTRACTION

Total PCB

Water (Organic)

Triazine Pesticides - Water (157)

ORG-120-5113; modified from EPA 3510C and EPA 8270C and ON MOECC E3121

GC/MS - EXTRACTION

Atrazine
Cyanazine
De-ethylated atrazine
Metolachlor
Metribuzin
Simazine
Trifluralin

Water (Organic)

Volatile Organic Compounds (VOC) - Water (046)

VOL-120-5001; modified from EPA 5030B and EPA 624 and EPA 8260B

GC/MS - PURGE AND TRAP

1,1-Dichloroethane
1,1-dichloroethylene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane

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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-Dichloropropane
1,4-dichlorobenzene
2-Chloroethyl vinyl ether
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
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-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride

Water (Organic)

Volatile Petroleum Hydrocarbons (VPH) Fractionation - Water (062)

VOL-120-5013; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2

PETROLEUM HYDROCARBONS METHODS

GC/FID - PURGE AND TRAP

Aliphatic C6-C8

Aliphatic >C8-C10

Aromatic >C8-C10

F1: C6-C10

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