



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 3588  
**Laboratory Name:** AGAT Laboratories (Dartmouth)  
**Parent Institution:** AGAT Laboratories Ltd.  
**Address:** 11 Morris Drive Unit 122 Dartmouth NS B3B 1M2  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** January 30, 2019  
**Valid To:** July 22, 2021

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### Scope of Accreditation

#### Air (Inorganic)

Ammonia - Air (212)  
INOR-121-6003, INOR-121-6022; SM 4500 NH3 F  
COLORIMETRIC  
Ammonia

#### 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

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m,p-Xylene  
o-Xylene  
Toluene

**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

**Air Filter (Inorganic)**

Metals - Air [Filter] (198)

MET-121-6112, MET-121-6113; NIOSH 7303 and SM 3120 B

ICP/OES

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

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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  
Silver  
Sodium  
Thallium  
Tin  
Uranium  
Vanadium

**Paint (Inorganic)**

Metals - Paint (195)  
MET-121-6113; modified from EPA 3050 and EPA 6010C and SM 3120 B  
ICP/OES  
Bismuth  
Cadmium  
Copper  
Lead  
Lithium  
Silver  
Thallium  
Tin  
Uranium  
Vanadium

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**Paint (Organic)**

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

**Soil (Inorganic)**

Available Metals - Soil (194)  
MET-121-6113; EPA 6010D and SM 3120 B  
ICP/OES  
Antimony  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Copper  
Lithium  
Manganese  
Molybdenum  
Nickel  
Selenium  
Strontium  
Thallium  
Tin  
Vanadium  
Zinc  
Zirconium

**Soil (Inorganic)**

Conductivity - Solids [Soil] (207)  
INOR-121-6006; CANADIAN SOCIETY OF SOIL SCIENCE - P155 and SM 2510 B  
CONDUCTIVITY METER  
Conductivity

**Solid Waste (Inorganic)**

Metals - Solid Waste (193)  
MET-121-6113; EPA 1312 and SM 3120 B  
ICP/OES - SPLP  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese

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Molybdenum  
Nickel  
Selenium  
Silver  
Strontium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc  
Zirconium

**Solid Waste (Inorganic)**

Metals - Solid Waste (196)

MET-121-6113; EPA 1311 and SM 3120 B

ICP/OES - TCLP

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

**Solid Waste (Inorganic)**

Metals - Solid Waste (197)

MET-121-6113; modified from CGSB 164-GP-1MP and SM 3120 B

ICP/OES - LEACH-CGSB

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium

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

**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

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**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

**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

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Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
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

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Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**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

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**Solids (Inorganic)**

Methyl Mercury - Solids (201)  
MET-121-6116, MET-121-6117; EPA 1630  
COLD VAPOUR ATOMIC FLUORESCENCE SPECTROPHOTOMETRY  
Methyl Mercury

**Solids (Inorganic)**

Percent Moisture - Solids (210)  
LAB-131-4024; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 51.2  
GRAVIMETRIC  
Percent Moisture

**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 (Inorganic)**

Total Phenols - Solids (208)  
INOR-121-6011; EPA 1312 and SM 5530  
AUTO COLOR - SPLP  
Total Phenols

**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

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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  
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

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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

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

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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  
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

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**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  
Iron  
Lead  
Manganese  
Molybdenum  
Nickel  
Silver  
Thallium  
Tin  
Titanium  
Uranium

**Swab (Inorganic)**

Metals - Swab (192)  
MET-121-6112, MET-121-6113; NIOSH 9102 and SM 3120 B  
ICP/OES  
Aluminum  
Arsenic  
Barium  
Beryllium  
Cadmium  
Cobalt  
Copper  
Iron  
Lead  
Manganese  
Molybdenum  
Nickel  
Silver  
Strontium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium

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**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

Silver

Sodium

Strontium

Tellurium

Thallium

Tin

Titanium

Uranium

Vanadium

Zinc

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**Tissue (Inorganic)**

Metals - Tissue (191)

MET-121-6103, MET-121-6113; EPA 200.7 and SM 3120 B

ICP/OES

Aluminum

Beryllium

Boron

Cadmium

Iron

Titanium

Uranium

Zirconium

**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 (Inorganic)**

Anions (SPLP Leachate) - Waste (189)

INOR-121-6005, INOR-121-6036; EPA 1312 and SM 4110 B

ION CHROMATOGRAPHY

Chloride

**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

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1,3-Dichlorobenzene  
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 (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 and SM 4500-CO2 C  
TITRATION  
Acidity  
Carbon dioxide (CO2)

**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

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Fluoride  
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)**

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  
Free Chlorine  
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)**

Cyanide - Water (209)  
INOR-121-6030; SM 4500-CN- N  
AUTO COLOR  
Cyanide (SAD)

**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

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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)**

Dissolved Metals - Water (199)  
MET-121-6113; EPA 6010D and SM 3120 B  
ICP/OES

Aluminum  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Selenium

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Silicon  
Silver  
Sodium  
Strontium  
Sulphur  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc  
Zirconium

**Water (Inorganic)**

Dissolved Oxygen - Water (206)  
INOR-121-6049; SM 4500-O  
D.O. METER  
Dissolved Oxygen (DO)

**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

**Water (Inorganic)**

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

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**Water (Inorganic)**

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

**Water (Inorganic)**

Phenols - Water (211)  
INOR-121-6011; SM 5530  
AUTO COLOR  
Total Phenolics

**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  
Antimony

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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 Metals - Water (190)

MET-121-6113; EPA 6010D and SM 3120 B

ICP/OES

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Chromium  
Cobalt  
Iron  
Lithium  
Phosphorus  
Potassium  
Selenium  
Silicon  
Silver

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Sodium  
Strontium  
Sulphur  
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

**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

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**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

**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 &gt;C10-C12

Aliphatic &gt;C12-C16

Aliphatic &gt;C16-C21

Aliphatic &gt;C21-C32

Aromatic &gt;C10-C12

Aromatic &gt;C12-C16

Aromatic &gt;C16-C21

Aromatic &gt;C21-C32

&gt;C10-C16

&gt;C16-C21

Fuel Oil (&gt;C10-C21)

Lube Oil (&gt;C21-C32)

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**Water (Organic)**

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

**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  
a - Chlordane  
Aldrin  
beta-BHC  
delta-BHC  
Dieldrin  
Endosulfan I  
Endosulfan II  
Endosulfan Sulfate  
Endrin  
Endrin Aldehyde  
Endrin Keytone  
g - 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)**

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

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**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

**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)**

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

1,1,2-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-Dibromoethane

1,2-dichlorobenzene

1,2-dichloroethane

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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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