



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 3508
Laboratory Name: ALS Environmental (Burlington)
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served:
Revised On: February 1, 2019
Valid To: August 1, 2021

Scope of Accreditation

Air (Inorganic)

Anions and Cations - Air [Stack Emission] (016)
BU-TM-1005; modified from CTM-027 and EPA 0050 and EPA 0051 and EPA 26 and EPA 26A and EPA 6 and EPA 7A and EPA 7D and EPA 8 and EPA 9056 and EPA 9057
ION CHROMATOGRAPHY
Ammonia (NH₃)
Bromine (Br₂)
Chlorine (Cl₂)
Hydrogen Bromide (HBr)
Hydrogen Chloride (HCl)
Hydrogen Fluoride (HF)
NO_x
SO_x

Air (Inorganic)

Mercury - Air (004)
BU-TM-1001, BU-TP-2001; modified from ASTM D6784-02 and EPA 0060 and EPA 101A and EPA 29 and EPA 7470
COLD VAPOUR AA
Mercury

Air (Inorganic)

Metals - Air (005)
BU-TM-1002, BU-TP-2001; modified from EPA 0060 and EPA 29 and EPA 6020
ICP/MS
Antimony
Arsenic
Barium
Cadmium

† "OSDWA" indicates the appendix is used for the analysis of Ontario drinking water samples, which is subject to the rules and related regulations under the Ontario "Safe Drinking Water Act" (2002).

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Chromium
Cobalt
Copper
Lead
Manganese
Nickel
Phosphorus
Selenium
Silver
Thallium
Vanadium
Zinc

Air (Inorganic)

Particulates - Air [Particulate] (039)
BU-TM-1008; modified from EPA 5 and EPA IO-3.1
GRAVIMETRIC
Particulates

Air (Organic)

Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Air (020)
BU-TM-1109, BU-TP-2109; modified from EPA 1614A
ISOTOPE DILUTION GC/HRMS
1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)
BDE-10
BDE-100
BDE-105
BDE-11
BDE-116
BDE-118
BDE-119
BDE-12
BDE-120
BDE-126
BDE-128
BDE-13
BDE-138
BDE-140
BDE-15
BDE-153
BDE-154
BDE-155
BDE-166
BDE-17
BDE-181
BDE-183
BDE-190
BDE-203
BDE-206
BDE-207
BDE-208
BDE-209
BDE-25
BDE-28
BDE-30

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BDE-32
BDE-33
BDE-35
BDE-37
BDE-47
BDE-49
BDE-51
BDE-66
BDE-7
BDE-71
BDE-75
BDE-77
BDE-79
BDE-8
BDE-85
BDE-99
Decabromodiphenyl ethane
Hexabromobenzene (HBB)
Pentabromoethylbenzene (PBEB)

Air (Organic)

Dioxins and Furans (PCDD/PCDF) - Air (001)

BU-TM-1110, BU-TM-1107; modified from EPA 0023A and EPA 1613B and EPA 23 and EPA 8290A and EPA TO-9A

ISOTOPE DILUTION GC/HRMS

1,2,3,4,6,7,8-HpCDD
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8-HxCDD
1,2,3,4,7,8-HxCDF
1,2,3,4,7,8,9-HpCDF
1,2,3,6,7,8-HxCDD
1,2,3,6,7,8-HxCDF
1,2,3,7,8-PeCDD
1,2,3,7,8-PeCDF
1,2,3,7,8,9-HxCDD
1,2,3,7,8,9-HxCDF
2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TeCDD
2,3,7,8-TeCDF
Octachlorodibenzo-p-dioxin (OCDD)
Octachlorodibenzofuran (OCDF)
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TeCDD
Total TeCDF

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Air (Organic)

Polychlorinated Biphenyls (PCB) - Air (036)

BU-TM-1105; modified from EPA 1668A and EPA 1668C

ISOTOPE DILUTION - GC/HRMS

PCB-1
PCB-10
PCB-100
PCB-101
PCB-102
PCB-103
PCB-104
PCB-105
PCB-106
PCB-107
PCB-108
PCB-109
PCB-11
PCB-110
PCB-111
PCB-112
PCB-113
PCB-114
PCB-115
PCB-116
PCB-117
PCB-118
PCB-119
PCB-12
PCB-120
PCB-121
PCB-122
PCB-123
PCB-124
PCB-125
PCB-126
PCB-127
PCB-128
PCB-129
PCB-13
PCB-130
PCB-131
PCB-132
PCB-133
PCB-134
PCB-135
PCB-136
PCB-137
PCB-138
PCB-139
PCB-14
PCB-140
PCB-141
PCB-142

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PCB-143
PCB-144
PCB-145
PCB-146
PCB-147
PCB-148
PCB-149
PCB-15
PCB-150
PCB-151
PCB-152
PCB-153
PCB-154
PCB-155
PCB-156
PCB-157
PCB-158
PCB-159
PCB-16
PCB-160
PCB-161
PCB-162
PCB-163
PCB-164
PCB-165
PCB-166
PCB-167
PCB-168
PCB-169
PCB-17
PCB-170
PCB-171
PCB-172
PCB-173
PCB-174
PCB-175
PCB-176
PCB-177
PCB-178
PCB-179
PCB-18
PCB-180
PCB-181
PCB-182
PCB-183
PCB-184
PCB-185
PCB-186
PCB-187
PCB-188
PCB-189
PCB-19
PCB-190

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PCB-191
PCB-192
PCB-193
PCB-194
PCB-195
PCB-196
PCB-197
PCB-198
PCB-199
PCB-2
PCB-20
PCB-200
PCB-201
PCB-202
PCB-203
PCB-204
PCB-205
PCB-206
PCB-207
PCB-208
PCB-209
PCB-21
PCB-22
PCB-23
PCB-24
PCB-25
PCB-26
PCB-27
PCB-28
PCB-29
PCB-3
PCB-30
PCB-31
PCB-32
PCB-33
PCB-34
PCB-35
PCB-36
PCB-37
PCB-38
PCB-39
PCB-4
PCB-40
PCB-41
PCB-42
PCB-43
PCB-44
PCB-45
PCB-46
PCB-47
PCB-48
PCB-49
PCB-5

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PCB-50
PCB-51
PCB-52
PCB-53
PCB-54
PCB-55
PCB-56
PCB-57
PCB-58
PCB-59
PCB-6
PCB-60
PCB-61
PCB-62
PCB-63
PCB-64
PCB-65
PCB-66
PCB-67
PCB-68
PCB-69
PCB-7
PCB-70
PCB-71
PCB-72
PCB-73
PCB-74
PCB-75
PCB-76
PCB-77
PCB-78
PCB-79
PCB-8
PCB-80
PCB-81
PCB-82
PCB-83
PCB-84
PCB-85
PCB-86
PCB-87
PCB-88
PCB-89
PCB-9
PCB-90
PCB-91
PCB-92
PCB-93
PCB-94
PCB-95
PCB-96
PCB-97
PCB-98

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Air (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Air (013)

BU-TP-2100, BU-TM-1100; modified from CARB 429 and EPA 3540C and EPA 8270E

GC/LRMS - EXTRACTION

Acenaphthene
Acenaphthylene
Anthracene
Benz(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

Air (Organic)

Volatile Organic Compounds (VOC) - Air (007)

BU-TM-1114; modified from EPA 5041A and EPA 8260B and EPA 8260C

GC/LRMS - PURGE AND TRAP

1,1-Dichloroethane
1,1-Dichloroethene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dichloroethane
1,2-Dichloropropane
1,2,3-Trichloropropane
2-Butanone (Methyl ethyl ketone, MEK)
4-Methyl-2-pentanone
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-dichloroethene
cis-1,3-Dichloropropene
Dibromomethane
Ethylbenzene
Hexanone
Iodomethane

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m,p-Xylene
Methylene chloride
o-Xylene
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane
Vinyl chloride

Biological Oil (Inorganic)

Mercury - Biological Oil (047)
BU-TM-1001, BU-TP-2010; EPA 3052 and EPA 7470
COLD VAPOUR AA - DIGESTION
Mercury

Biological Oil (Inorganic)

Metals - Biological Oil (046)
BU-TM-1002, BU-TP-2010; EPA 3052 and EPA 6020B
ICP/MS
Arsenic
Cadmium
Lead

Food (Organic)

Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Food [Butter, Dairy, Fat, Grains, Milled Grain Product, Nut Butter, Vegetable Oil] (034)
BU-TM-1109; modified from EPA 1614A
ISOTOPE DILUTION GC/HRMS
1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)
BDE-10
BDE-100
BDE-105
BDE-11
BDE-116
BDE-118
BDE-119
BDE-12
BDE-120
BDE-126
BDE-128
BDE-13
BDE-138
BDE-140
BDE-15
BDE-153
BDE-154
BDE-155
BDE-166
BDE-17
BDE-181
BDE-183
BDE-190
BDE-203

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BDE-206
BDE-207
BDE-208
BDE-209
BDE-25
BDE-28
BDE-30
BDE-32
BDE-33
BDE-35
BDE-37
BDE-47
BDE-49
BDE-51
BDE-66
BDE-7
BDE-71
BDE-75
BDE-77
BDE-79
BDE-8
BDE-85
BDE-99
Decabromodiphenyl ethane
Hexabromobenzene (HBB)
Pentabromoethylbenzene (PBEB)

Food (Organic)

Polyaromatic Hydrocarbons (PAH) - Food [Beverage, Cereal, Dairy, Edible Meat Offal, Edible Oil, Egg, Fish, Fresh Fruit, Meat] (023)

BU-TP-2100, BU-TM-1100; modified from CARB 429 and EPA 3510C

GC/HRMS - EXTRACTION

1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benz(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

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Food (Organic)

Polychlorinated Biphenyls (PCB) Congeners - Food [Cereal, Dairy, Edible Meat Offal, Edible Oil, Egg, Fish, Fresh Fruit, Meat, Vegetables] (025)

BU-TM-1105, BU-TM-1110; modified from EPA 1668

ISOTOPE DILUTION - GC/HRMS

- PCB-1
- PCB-10
- PCB-100
- PCB-101
- PCB-102
- PCB-103
- PCB-104
- PCB-105
- PCB-106
- PCB-107
- PCB-108
- PCB-109
- PCB-11
- PCB-110
- PCB-111
- PCB-112
- PCB-113
- PCB-114
- PCB-115
- PCB-116
- PCB-117
- PCB-118
- PCB-119
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- PCB-131
- PCB-132
- PCB-133
- PCB-134
- PCB-135
- PCB-136
- PCB-137
- PCB-138
- PCB-139
- PCB-14
- PCB-140
- PCB-141

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PCB-142
PCB-143
PCB-144
PCB-145
PCB-146
PCB-147
PCB-148
PCB-149
PCB-15
PCB-150
PCB-151
PCB-152
PCB-153
PCB-154
PCB-155
PCB-156
PCB-157
PCB-158
PCB-159
PCB-16
PCB-160
PCB-161
PCB-162
PCB-163
PCB-164
PCB-165
PCB-166
PCB-167
PCB-168
PCB-169
PCB-17
PCB-170
PCB-171
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PCB-173
PCB-174
PCB-175
PCB-176
PCB-177
PCB-178
PCB-179
PCB-18
PCB-180
PCB-181
PCB-182
PCB-183
PCB-184
PCB-185
PCB-186
PCB-187
PCB-188
PCB-189
PCB-19

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PCB-190
PCB-191
PCB-192
PCB-193
PCB-194
PCB-195
PCB-196
PCB-197
PCB-198
PCB-199
PCB-2
PCB-20
PCB-200
PCB-201
PCB-202
PCB-203
PCB-204
PCB-205
PCB-206
PCB-207
PCB-208
PCB-209
PCB-21
PCB-22
PCB-23
PCB-24
PCB-25
PCB-26
PCB-27
PCB-28
PCB-29
PCB-3
PCB-30
PCB-31
PCB-32
PCB-33
PCB-34
PCB-35
PCB-36
PCB-37
PCB-38
PCB-39
PCB-4
PCB-40
PCB-41
PCB-42
PCB-43
PCB-44
PCB-45
PCB-46
PCB-47
PCB-48
PCB-49

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PCB-5
PCB-50
PCB-51
PCB-52
PCB-53
PCB-54
PCB-55
PCB-56
PCB-57
PCB-58
PCB-59
PCB-6
PCB-60
PCB-61
PCB-62
PCB-63
PCB-64
PCB-65
PCB-66
PCB-67
PCB-68
PCB-69
PCB-7
PCB-70
PCB-71
PCB-72
PCB-73
PCB-74
PCB-75
PCB-76
PCB-77
PCB-78
PCB-79
PCB-8
PCB-80
PCB-81
PCB-82
PCB-83
PCB-84
PCB-85
PCB-86
PCB-87
PCB-88
PCB-89
PCB-9
PCB-90
PCB-91
PCB-92
PCB-93
PCB-94
PCB-95
PCB-96
PCB-97

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PCB-98

PCB-99

Food (Organic)

Polychlorinated Dioxins and Polychlorinated Furans and Selected PCB Congeners (PCDD/PCDF) - Food [Cereal, Dairy, Edible Meat Offal, Edible Oil, Egg, Fish, Fresh Fruit, Meat, Vegetables] (026)

BU-TM-1107, BU-TM-1110, BU-TM-1113, BU-TP-2113; modified from EPA 1613B and EPA 1668A and EPA 1668C

ISOTOPE DILUTION - GC/HRMS

1,2,3,4,6,7,8-HpCDD

1,2,3,4,6,7,8-HpCDF

1,2,3,4,7,8-HxCDD

1,2,3,4,7,8-HxCDF

1,2,3,4,7,8,9-HpCDF

1,2,3,6,7,8-HxCDD

1,2,3,6,7,8-HxCDF

1,2,3,7,8-PeCDD

1,2,3,7,8-PeCDF

1,2,3,7,8,9-HxCDD

1,2,3,7,8,9-HxCDF

2',3,4,4',5-Pentachlorobiphenyl (PCB 123)

2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)

2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB-180)

2,3',4,4',5-Pentachlorobiphenyl (118)

2,3',4,4',5,5'-Hexachlorobiphenyl PCB-167

2,3,3',4,4',5'-Hexachlorobiphenyl PCB-156

2,3,3',4,4',5-Hexachlorobiphenyl PCB-157

2,3,3',4,4',5,5'-Heptachlorobiphenyl PCB-189

2,3,3',4,4'-Pentachlorobiphenyl PCB105

2,3,4,4',5-Pentachlorobiphenyl (114)

2,3,4,6,7,8-HxCDF

2,3,4,7,8-PeCDF

2,3,7,8-TeCDD

2,3,7,8-TeCDF

3,3',4,4',5-Pentachlorobiphenyl

3,3',4,4',5,5'-Hexachlorobiphenyl

3,3',4,4'-Tetrachlorobiphenyl

3,4,4',5-Tetrachlorobiphenyl

Octachlorodibenzo-p-dioxin (OCDD)

Octachlorodibenzofuran (OCDF)

Total HpCDD

Total HpCDF

Total HxCDD

Total HxCDF

Total PeCDD

Total PeCDF

Total TeCDD

Total TeCDF

Solids (Inorganic)

Mercury - Solids [Sediment, Soil] (029)

BU-TM-1001; modified from EPA 7471A

COLD VAPOUR AA - DIGESTION

Mercury

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Solids (Inorganic)

Metals - Solids [Sediment, Soil] (028)

NA-TP-2004, BU-TM-1002; modified from EPA 6020

DIGESTION/CP - LRMS

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

Solids (Inorganic)

Moisture - Solids (035)

BU-TM-1200; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GRAVIMETRIC

Percent Moisture

Solids (Organic)

Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Solids [Sediment, Soil] (018)

BU-TM-1109, BU-TP-2109; modified from EPA 1614A

ISOTOPE DILUTION GC/HRMS

1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)
BDE-10
BDE-100
BDE-105
BDE-11
BDE-116
BDE-118
BDE-119
BDE-12
BDE-120
BDE-126
BDE-128
BDE-13

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BDE-138
BDE-140
BDE-15
BDE-153
BDE-154
BDE-155
BDE-166
BDE-17
BDE-181
BDE-183
BDE-190
BDE-203
BDE-206
BDE-207
BDE-208
BDE-209
BDE-25
BDE-28
BDE-30
BDE-32
BDE-33
BDE-35
BDE-37
BDE-47
BDE-49
BDE-51
BDE-66
BDE-7
BDE-71
BDE-75
BDE-77
BDE-79
BDE-8
BDE-85
BDE-99
Decabromodiphenyl ethane
Hexabromobenzene (HBB)
Pentabromoethylbenzene (PBEB)

Solids (Organic)

Dioxins and Furans (PCDD/PCDF) - Solids [Soil] (002)
BU-TM-1110, BU-TM-1107; modified from EPA 1613B and EPA 8290A
ISOTOPE DILUTION GC/HRMS

1,2,3,4,6,7,8-HpCDD
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8-HxCDD
1,2,3,4,7,8-HxCDF
1,2,3,4,7,8,9-HpCDF
1,2,3,6,7,8-HxCDD
1,2,3,6,7,8-HxCDF
1,2,3,7,8-PeCDD
1,2,3,7,8-PeCDF
1,2,3,7,8,9-HxCDD
1,2,3,7,8,9-HxCDF

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2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TeCDD
2,3,7,8-TeCDF
Octachlorodibenzo-p-dioxin (OCDD)
Octachlorodibenzofuran (OCDF)
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TeCDD
Total TeCDF

Solids (Organic)

Nitrosamines - Solids (011)

BU-TM-1106, BU-TP-2106; modified from ON MOECC E3388

GC/HRMS

N-Nitrosodimethylamine (NDMA)

Solids (Organic)

Organochlorine (OC) Pesticides - Solids (024)

BU-TM-1103, BU-TP-2103; modified from EPA 1699

GC/HRMS - EXTRACTION

1,2,3,4-Tetrachlorobenzene (1,2,3,4-TCB)

1,2,4,5-Tetrachlorobenzene (1,2,4,5-TCB)

2,4'-DDD

2,4'-DDE

2,4'-DDT

4,4'-DDD

4,4'-DDE

4,4'-DDT

Aldrin

alpha-BHC

beta-BHC

cis-Chlordane

cis-Nonachlor

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan Sulfate

Endrin

Heptachlor

Heptachlor epoxide

Hexachlorobenzene

Lindane (gamma-BHC)

Methoxychlor

Mirex

Octachlorostyrene

Oxychlordane

Parlar-26

Parlar-50

Parlar-62

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Pentachlorobenzene
trans-Chlordane
trans-Nonachlor

Solids (Organic)

Polychlorinated Biphenyls (PCB) Congeners - Solids [Sediment, Soil] (015)
BU-TM-1110, BU-TM-1105; modified from EPA 1668A and EPA 1668C
ISOTOPE DILUTION GC/HRMS

PCB-1
PCB-10
PCB-100
PCB-101
PCB-102
PCB-103
PCB-104
PCB-105
PCB-106
PCB-107
PCB-108
PCB-109
PCB-11
PCB-110
PCB-111
PCB-112
PCB-113
PCB-114
PCB-115
PCB-116
PCB-117
PCB-118
PCB-119
PCB-12
PCB-120
PCB-121
PCB-122
PCB-123
PCB-124
PCB-125
PCB-126
PCB-127
PCB-128
PCB-129
PCB-13
PCB-130
PCB-131
PCB-132
PCB-133
PCB-134
PCB-135
PCB-136
PCB-137
PCB-138
PCB-139
PCB-14

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PCB-140
PCB-141
PCB-142
PCB-143
PCB-144
PCB-145
PCB-146
PCB-147
PCB-148
PCB-149
PCB-15
PCB-150
PCB-151
PCB-152
PCB-153
PCB-154
PCB-155
PCB-156
PCB-157
PCB-158
PCB-159
PCB-16
PCB-160
PCB-161
PCB-162
PCB-163
PCB-164
PCB-165
PCB-166
PCB-167
PCB-168
PCB-169
PCB-17
PCB-170
PCB-171
PCB-172
PCB-173
PCB-174
PCB-175
PCB-176
PCB-177
PCB-178
PCB-179
PCB-18
PCB-180
PCB-181
PCB-182
PCB-183
PCB-184
PCB-185
PCB-186
PCB-187
PCB-188

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PCB-189
PCB-19
PCB-190
PCB-191
PCB-192
PCB-193
PCB-194
PCB-195
PCB-196
PCB-197
PCB-198
PCB-199
PCB-2
PCB-20
PCB-200
PCB-201
PCB-202
PCB-203
PCB-204
PCB-205
PCB-206
PCB-207
PCB-208
PCB-209
PCB-21
PCB-22
PCB-23
PCB-24
PCB-25
PCB-26
PCB-27
PCB-28
PCB-29
PCB-3
PCB-30
PCB-31
PCB-32
PCB-33
PCB-34
PCB-35
PCB-36
PCB-37
PCB-38
PCB-39
PCB-4
PCB-40
PCB-41
PCB-42
PCB-43
PCB-44
PCB-45
PCB-46
PCB-47

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PCB-48
PCB-49
PCB-5
PCB-50
PCB-51
PCB-52
PCB-53
PCB-54
PCB-55
PCB-56
PCB-57
PCB-58
PCB-59
PCB-6
PCB-60
PCB-61
PCB-62
PCB-63
PCB-64
PCB-65
PCB-66
PCB-67
PCB-68
PCB-69
PCB-7
PCB-70
PCB-71
PCB-72
PCB-73
PCB-74
PCB-75
PCB-76
PCB-77
PCB-78
PCB-79
PCB-8
PCB-80
PCB-81
PCB-82
PCB-83
PCB-84
PCB-85
PCB-86
PCB-87
PCB-88
PCB-89
PCB-9
PCB-90
PCB-91
PCB-92
PCB-93
PCB-94
PCB-95

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PCB-96
PCB-97
PCB-98
PCB-99

Solids (Organic)

Polychlorinated Naphthalenes (PCN) - Solids (022)

BU-TM-1110, BU-TM-1102; modified from EPA 1613B and EPA 8290A and ON MOECC E3431
ISOTOPE DILUTION GC/HRMS

Dichlorinated Naphthalenes
Heptachlorinated Naphthalenes
Hexachlorinated Naphthalenes
Monochlorinated Naphthalenes
Octachlorinated Naphthalenes
Pentachlorinated Naphthalenes
Tetrachlorinated Naphthalenes
Trichlorinated Naphthalenes

Solids (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Solids (009)

BU-TP-2100/BU-TM-1100; modified from CARB 429 and EPA 3540C
ISOTOPE DILUTION - GC/LRMS

Acenaphthene
Acenaphthylene
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

SPMD (Extract analysis only) (Organic)

Organochlorine (OC) Pesticides - SPMD (045)

BU-TM-1103 OC PESTICIDES; modified from EPA 1699
HI RESOLUTION GC/MS

2,4'-DDD
2,4'-DDE
2,4'-DDT
4,4'-DDD
4,4'-DDE
4,4'-DDT
alpha-BHC
beta-BHC
cis-Chlordane
cis-Heptachlor Epoxide
cis-Nonachlor
delta-BHC
Dieldrin

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Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Hexachlorobenzene
Lindane (gamma-BHC)
Methoxychlor
Mirex
Octachlorostyrene
Oxychlorane
Parlar-26
Parlar-50
Parlar-62
trans-Chlordane
trans-Heptachlor Epoxide
trans-Nonachlor

SPMD (Extract analysis only) (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - SPMD (044)

BU-TM-1100 ANALYSIS OF PAH; modified from CARB 429 and SM 3540 C

HI RESOLUTION GC/MS

Acenaphthene
Acenaphthylene
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

SPMD (Extracts only) (Organic)

Brominated Diphenyl Ethers (BDE) - SPMD (043)

BU-TM-1109 BDPE; modified from EPA 1614A

HI RESOLUTION GC/MS

1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)
BDE-10
BDE-100
BDE-105
BDE-11
BDE-116
BDE-118
BDE-119
BDE-12
BDE-120
BDE-126
BDE-128
BDE-13

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BDE-138
BDE-140
BDE-15
BDE-153
BDE-154
BDE-155
BDE-166
BDE-17
BDE-181
BDE-183
BDE-190
BDE-203
BDE-206
BDE-207
BDE-208
BDE-209
BDE-25
BDE-28
BDE-30
BDE-32
BDE-33
BDE-35
BDE-37
BDE-47
BDE-49
BDE-51
BDE-66
BDE-7
BDE-71
BDE-75
BDE-77
BDE-79
BDE-8
BDE-85
BDE-99
Decabromodiphenyl ethane
Hexabromobenzene (HBB)
Pentabromoethylbenzene (PBEB)

SPMD (Extracts only) (Organic)

Dioxins and Furans (PCDD/PCDF) - SPMD (040)
BU-TM-1107 PCDD_F; modified from EPA 1613B
GC/HRMS

1,2,3,4,6,7,8-HpCDD
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8-HxCDD
1,2,3,4,7,8-HxCDF
1,2,3,4,7,8,9-HpCDF
1,2,3,6,7,8-HxCDD
1,2,3,6,7,8-HxCDF
1,2,3,7,8-PeCDD
1,2,3,7,8-PeCDF
1,2,3,7,8,9-HxCDD
1,2,3,7,8,9-HxCDF

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2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TeCDD
2,3,7,8-TeCDF
Octachlorodibenzo-p-dioxin (OCDD)
Octachlorodibenzofuran (OCDF)
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TeCDD
Total TeCDF

SPMD (Extracts only) (Organic)

Polychlorinated Biphenyls (PCB) Congeners - SPMD (042)

BU-TM-1105 PCB Congeners; modified from EPA 1668

HI RESOLUTION GC/MS

PCB-1
PCB-10
PCB-100
PCB-101
PCB-102
PCB-103
PCB-104
PCB-105
PCB-106
PCB-107
PCB-108
PCB-109
PCB-11
PCB-110
PCB-111
PCB-112
PCB-113
PCB-114
PCB-115
PCB-116
PCB-117
PCB-118
PCB-119
PCB-12
PCB-120
PCB-121
PCB-122
PCB-123
PCB-124
PCB-125
PCB-126
PCB-127
PCB-128
PCB-129
PCB-13

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PCB-130
PCB-131
PCB-132
PCB-133
PCB-134
PCB-135
PCB-136
PCB-137
PCB-138
PCB-139
PCB-14
PCB-140
PCB-141
PCB-142
PCB-143
PCB-144
PCB-145
PCB-146
PCB-147
PCB-148
PCB-149
PCB-15
PCB-150
PCB-151
PCB-152
PCB-153
PCB-154
PCB-155
PCB-156
PCB-157
PCB-158
PCB-159
PCB-16
PCB-160
PCB-161
PCB-162
PCB-163
PCB-164
PCB-165
PCB-166
PCB-167
PCB-168
PCB-169
PCB-17
PCB-170
PCB-171
PCB-172
PCB-173
PCB-174
PCB-175
PCB-176
PCB-177
PCB-178

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PCB-179
PCB-18
PCB-180
PCB-181
PCB-182
PCB-183
PCB-184
PCB-185
PCB-186
PCB-187
PCB-188
PCB-189
PCB-19
PCB-190
PCB-191
PCB-192
PCB-193
PCB-194
PCB-195
PCB-196
PCB-197
PCB-198
PCB-199
PCB-2
PCB-20
PCB-200
PCB-201
PCB-202
PCB-203
PCB-204
PCB-205
PCB-206
PCB-207
PCB-208
PCB-209
PCB-21
PCB-22
PCB-23
PCB-24
PCB-25
PCB-26
PCB-27
PCB-28
PCB-29
PCB-3
PCB-30
PCB-31
PCB-32
PCB-33
PCB-34
PCB-35
PCB-36
PCB-37

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PCB-38
PCB-39
PCB-4
PCB-40
PCB-41
PCB-42
PCB-43
PCB-44
PCB-45
PCB-46
PCB-47
PCB-48
PCB-49
PCB-5
PCB-50
PCB-51
PCB-52
PCB-53
PCB-54
PCB-55
PCB-56
PCB-57
PCB-58
PCB-59
PCB-6
PCB-60
PCB-61
PCB-62
PCB-63
PCB-64
PCB-65
PCB-66
PCB-67
PCB-68
PCB-69
PCB-7
PCB-70
PCB-71
PCB-72
PCB-73
PCB-74
PCB-75
PCB-76
PCB-77
PCB-78
PCB-79
PCB-8
PCB-80
PCB-81
PCB-82
PCB-83
PCB-84
PCB-85

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PCB-86
PCB-87
PCB-88
PCB-89
PCB-9
PCB-90
PCB-91
PCB-92
PCB-93
PCB-94
PCB-95
PCB-96
PCB-97
PCB-98
PCB-99

Tissue (Organic)

Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Tissue (019)

BU-TM-1109, BU-TP-2109; modified from EPA 1614A

ISOTOPE DILUTION GC/HRMS

1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)

BDE-10
BDE-100
BDE-105
BDE-11
BDE-116
BDE-118
BDE-119
BDE-12
BDE-120
BDE-126
BDE-128
BDE-13
BDE-138
BDE-140
BDE-15
BDE-153
BDE-154
BDE-155
BDE-166
BDE-17
BDE-181
BDE-183
BDE-190
BDE-203
BDE-206
BDE-207
BDE-208
BDE-209
BDE-25
BDE-28
BDE-30
BDE-32
BDE-33

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BDE-35
BDE-37
BDE-47
BDE-49
BDE-51
BDE-66
BDE-7
BDE-71
BDE-75
BDE-77
BDE-79
BDE-8
BDE-85
BDE-99
Decabromodiphenyl ethane
Hexabromobenzene (HBB)
Pentabromoethylbenzene (PBEB)

Tissue (Organic)

Dioxins and Furans (PCDD/PCDF) - Tissue (014)
BU-TM-1110, BU-TM-1107; modified from EPA 1613B and EPA 8290A
ISOTOPE DILUTION GC/HRMS
1,2,3,4,6,7,8-HpCDD
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8-HxCDD
1,2,3,4,7,8-HxCDF
1,2,3,4,7,8,9-HpCDF
1,2,3,6,7,8-HxCDD
1,2,3,6,7,8-HxCDF
1,2,3,7,8-PeCDD
1,2,3,7,8-PeCDF
1,2,3,7,8,9-HxCDD
1,2,3,7,8,9-HxCDF
2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TeCDD
2,3,7,8-TeCDF
Octachlorodibenzo-p-dioxin (OCDD)
Octachlorodibenzofuran (OCDF)
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TeCDD
Total TeCDF

Tissue (Organic)

Organochlorine (OC) Pesticides - Tissue (033)
BU-TM-1103, BU-TP-2103; modified from EPA 1699
SELECTED ION-MONITORING/GC/HRMS
2,4'-DDD
2,4'-DDE
2,4'-DDT

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4,4'-DDD
4,4'-DDE
4,4'-DDT
alpha-BHC
beta-BHC
cis-Chlordane
cis-Heptachlor Epoxide
cis-Nonachlor
delta-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Hexachlorobenzene
Lindane (gamma-BHC)
Methoxychlor
Mirex
Octachlorostyrene
Oxychlordane
Parlar-26
Parlar-50
Parlar-62
trans-Chlordane
trans-Heptachlor Epoxide
trans-Nonachlor

Tissue (Organic)

Polychlorinated Biphenyls (PCB) - Tissue (032)

BU-TM-1120; EPA 680

GC/LRMS

PCB-10

PCB-101

PCB-105

PCB-106

PCB-107

PCB-108

PCB-109

PCB-110

PCB-111

PCB-114

PCB-115

PCB-116

PCB-117

PCB-118

PCB-12

PCB-120

PCB-121

PCB-123

PCB-125

PCB-126

PCB-127

PCB-128

PCB-129

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PCB-13
PCB-131
PCB-132
PCB-135
PCB-137
PCB-138
PCB-139
PCB-141
PCB-142
PCB-144
PCB-146
PCB-149
PCB-15
PCB-151
PCB-153
PCB-156
PCB-157
PCB-158
PCB-159
PCB-16
PCB-160
PCB-163
PCB-165
PCB-167
PCB-168
PCB-169
PCB-17
PCB-170
PCB-171
PCB-172
PCB-174
PCB-177
PCB-18
PCB-180
PCB-181
PCB-182
PCB-183
PCB-187
PCB-19
PCB-190
PCB-191
PCB-192
PCB-193
PCB-194
PCB-195
PCB-196
PCB-199
PCB-20
PCB-203
PCB-205
PCB-206
PCB-207
PCB-208

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PCB-209
PCB-21
PCB-22
PCB-24
PCB-25
PCB-26
PCB-27
PCB-28
PCB-31
PCB-32
PCB-33
PCB-37
PCB-4
PCB-41
PCB-42
PCB-43
PCB-44
PCB-45
PCB-46
PCB-47
PCB-48
PCB-49
PCB-5
PCB-52
PCB-53
PCB-56
PCB-59
PCB-6
PCB-60
PCB-61
PCB-63
PCB-64
PCB-66
PCB-68
PCB-7
PCB-70
PCB-71
PCB-73
PCB-74
PCB-75
PCB-76
PCB-8
PCB-80
PCB-81
PCB-82
PCB-83
PCB-84
PCB-85
PCB-86
PCB-87
PCB-89
PCB-9
PCB-90

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PCB-91
PCB-92
PCB-93
PCB-95
PCB-97
PCB-99

Tissue (Organic)

Polychlorinated Biphenyls (PCB) Congeners - Tissue (041)

BU-TM-1105 PCB Congeners; modified from EPA 1668

HI RESOLUTION GC/MS

PCB-1
PCB-10
PCB-100
PCB-101
PCB-102
PCB-103
PCB-104
PCB-105
PCB-106
PCB-107
PCB-108
PCB-109
PCB-11
PCB-110
PCB-111
PCB-112
PCB-113
PCB-114
PCB-115
PCB-116
PCB-117
PCB-118
PCB-119
PCB-12
PCB-120
PCB-121
PCB-122
PCB-123
PCB-124
PCB-125
PCB-126
PCB-127
PCB-128
PCB-129
PCB-13
PCB-130
PCB-131
PCB-132
PCB-133
PCB-134
PCB-135
PCB-136
PCB-137

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PCB-138
PCB-139
PCB-14
PCB-140
PCB-141
PCB-142
PCB-143
PCB-144
PCB-145
PCB-146
PCB-147
PCB-148
PCB-149
PCB-15
PCB-150
PCB-151
PCB-152
PCB-153
PCB-154
PCB-155
PCB-156
PCB-157
PCB-158
PCB-159
PCB-16
PCB-160
PCB-161
PCB-162
PCB-163
PCB-164
PCB-165
PCB-166
PCB-167
PCB-168
PCB-169
PCB-17
PCB-170
PCB-171
PCB-172
PCB-173
PCB-174
PCB-175
PCB-176
PCB-177
PCB-178
PCB-179
PCB-18
PCB-180
PCB-181
PCB-182
PCB-183
PCB-184
PCB-185

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PCB-186
PCB-187
PCB-188
PCB-189
PCB-19
PCB-190
PCB-191
PCB-192
PCB-193
PCB-194
PCB-195
PCB-196
PCB-197
PCB-198
PCB-199
PCB-2
PCB-20
PCB-200
PCB-201
PCB-202
PCB-203
PCB-204
PCB-205
PCB-206
PCB-207
PCB-208
PCB-209
PCB-21
PCB-22
PCB-23
PCB-24
PCB-25
PCB-26
PCB-27
PCB-28
PCB-29
PCB-3
PCB-30
PCB-31
PCB-32
PCB-33
PCB-34
PCB-35
PCB-36
PCB-37
PCB-38
PCB-39
PCB-4
PCB-40
PCB-41
PCB-42
PCB-43
PCB-44

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PCB-45
PCB-46
PCB-47
PCB-48
PCB-49
PCB-5
PCB-50
PCB-51
PCB-52
PCB-53
PCB-54
PCB-55
PCB-56
PCB-57
PCB-58
PCB-59
PCB-6
PCB-60
PCB-61
PCB-62
PCB-63
PCB-64
PCB-65
PCB-66
PCB-67
PCB-68
PCB-69
PCB-7
PCB-70
PCB-71
PCB-72
PCB-73
PCB-74
PCB-75
PCB-76
PCB-77
PCB-78
PCB-79
PCB-8
PCB-80
PCB-81
PCB-82
PCB-83
PCB-84
PCB-85
PCB-86
PCB-87
PCB-88
PCB-89
PCB-9
PCB-90
PCB-91
PCB-92

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PCB-93
PCB-94
PCB-95
PCB-96
PCB-97
PCB-98
PCB-99

Tissue (Organic)

Polychlorinated Naphthalenes (PCN) - Tissue (027)

BU-TM-1110, BU-TM-1102; modified from EPA 1613B and EPA 8290A and ON MOECC E3431
ISOTOPE DILUTION GC/HRMS

Dichlorinated Naphthalenes
Heptachlorinated Naphthalenes
Hexachlorinated Naphthalenes
Monochlorinated Naphthalenes
Octachlorinated Naphthalenes
Pentachlorinated Naphthalenes
Tetrachlorinated Naphthalenes
Trichlorinated Naphthalenes

Water (Organic)

Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Water (017)

BU-TM-1110, BU-TM-1109; modified from EPA 1614A
ISOTOPE DILUTION GC/HRMS

1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)
BDE-10
BDE-100
BDE-105
BDE-11
BDE-116
BDE-118
BDE-119
BDE-12
BDE-120
BDE-126
BDE-128
BDE-13
BDE-138
BDE-140
BDE-15
BDE-153
BDE-154
BDE-155
BDE-166
BDE-17
BDE-181
BDE-183
BDE-190
BDE-203
BDE-206
BDE-207
BDE-208
BDE-209
BDE-25

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BDE-28
BDE-30
BDE-32
BDE-33
BDE-35
BDE-37
BDE-47
BDE-49
BDE-51
BDE-66
BDE-7
BDE-71
BDE-75
BDE-77
BDE-79
BDE-8
BDE-85
BDE-99
Decabromodiphenyl ethane
Hexabromobenzene (HBB)
Pentabromoethylbenzene (PBEB)

Water (Organic)

OSDWA †

Dioxins and Furans (PCDD/PCDF) - Water (003)
BU-TM-1110, BU-TM-1107; modified from EPA 1613B and EPA 8290A
GC/HRMS
1,2,3,4,6,7,8-HpCDD
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8-HxCDD
1,2,3,4,7,8-HxCDF
1,2,3,4,7,8,9-HpCDF
1,2,3,6,7,8-HxCDD
1,2,3,6,7,8-HxCDF
1,2,3,7,8-PeCDD
1,2,3,7,8-PeCDF
1,2,3,7,8,9-HxCDD
1,2,3,7,8,9-HxCDF
2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TeCDD
2,3,7,8-TeCDF
Octachlorodibenzo-p-dioxin (OCDD)
Octachlorodibenzofuran (OCDF)
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TeCDD
Total TeCDF

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Water (Organic)

Nitrosamines - Water (012)

BU-TM-1106, BU-TP-2106; modified from ON MOECC E3388

GC/HRMS

N-Nitrosodimethylamine (NDMA)

Water (Organic)

Polychlorinated Biphenyls (PCB) - Water (037)

BU-TM-1105; modified from EPA 1668A and EPA 1668C

ISOTOPE DILUTION - GC/HRMS

PCB-1

PCB-10

PCB-100

PCB-101

PCB-102

PCB-103

PCB-104

PCB-105

PCB-106

PCB-107

PCB-108

PCB-109

PCB-11

PCB-110

PCB-111

PCB-112

PCB-113

PCB-114

PCB-115

PCB-116

PCB-117

PCB-118

PCB-119

PCB-12

PCB-120

PCB-121

PCB-122

PCB-123

PCB-124

PCB-125

PCB-126

PCB-127

PCB-128

PCB-129

PCB-13

PCB-130

PCB-131

PCB-132

PCB-133

PCB-134

PCB-135

PCB-136

PCB-137

PCB-138

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PCB-139
PCB-14
PCB-140
PCB-141
PCB-142
PCB-143
PCB-144
PCB-145
PCB-146
PCB-147
PCB-148
PCB-149
PCB-15
PCB-150
PCB-151
PCB-152
PCB-153
PCB-154
PCB-155
PCB-156
PCB-157
PCB-158
PCB-159
PCB-16
PCB-160
PCB-161
PCB-162
PCB-163
PCB-164
PCB-165
PCB-166
PCB-167
PCB-168
PCB-169
PCB-17
PCB-170
PCB-171
PCB-172
PCB-173
PCB-174
PCB-175
PCB-176
PCB-177
PCB-178
PCB-179
PCB-18
PCB-180
PCB-181
PCB-182
PCB-183
PCB-184
PCB-185
PCB-186

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PCB-187
PCB-188
PCB-189
PCB-19
PCB-190
PCB-191
PCB-192
PCB-193
PCB-194
PCB-195
PCB-196
PCB-197
PCB-198
PCB-199
PCB-2
PCB-20
PCB-200
PCB-201
PCB-202
PCB-203
PCB-204
PCB-205
PCB-206
PCB-207
PCB-208
PCB-209
PCB-21
PCB-22
PCB-23
PCB-24
PCB-25
PCB-26
PCB-27
PCB-28
PCB-29
PCB-3
PCB-30
PCB-31
PCB-32
PCB-33
PCB-34
PCB-35
PCB-36
PCB-37
PCB-38
PCB-39
PCB-4
PCB-40
PCB-41
PCB-42
PCB-43
PCB-44
PCB-45

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PCB-46
PCB-47
PCB-48
PCB-49
PCB-5
PCB-50
PCB-51
PCB-52
PCB-53
PCB-54
PCB-55
PCB-56
PCB-57
PCB-58
PCB-59
PCB-6
PCB-60
PCB-61
PCB-62
PCB-63
PCB-64
PCB-65
PCB-66
PCB-67
PCB-68
PCB-69
PCB-7
PCB-70
PCB-71
PCB-72
PCB-73
PCB-74
PCB-75
PCB-76
PCB-77
PCB-78
PCB-79
PCB-8
PCB-80
PCB-81
PCB-82
PCB-83
PCB-84
PCB-85
PCB-86
PCB-87
PCB-88
PCB-89
PCB-9
PCB-90
PCB-91
PCB-92
PCB-93

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PCB-94
PCB-95
PCB-96
PCB-97
PCB-98
PCB-99

Water (Organic)

Taste and Odour Compounds - Water (038)

BU-TM-1115; modified from EPA 8270D

HI RESOLUTION GC/HRMS

2-Isobutyl-3-methoxypyrazine

2-Isopropyl-3-methoxypyrazine

2-Methylisoborneol (MIB)

2,3,6-Trichloroanisole

2,4,6-Trichloroanisole

3,4,5-Trichloroveratrole

Geosmin

OSDWA †

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