



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 3317  
**Laboratory Name:** Pacific Rim Laboratories Inc.  
**Parent Institution:**  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** January 31, 2017  
**Valid To:** August 1, 2019

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### Scope of Accreditation

#### Food (Organic)

Brominated Flame Retardants - Meat, Fish, Eggs, Dairy, Fish Oil, Vegetable Oil, Plants, Vegetation, Nut Butters, Seeds (021)

SOP LAB06F/GC-HRMS; modified from EPA 1614

HRGC/HRMS-EXTRACTION

2,2',3,3',4,4',5,5',6-NoBDE

2,2',3,3',4,4',5,5',6,6'-DeBDE

2,2',3,3',4,4',5,6'-OcbDE

2,2',3,3',4,4',5,6,6'-NoBDE

2,2',3,3',4,4',6-HpBDE

2,2',3,3',4,4',6,6'-OcbDE

2,2',3,3',4,5',6,6'-OcbDE

2,2',3,3',4,5,5',6,6'-NoBDE

2,2',3,4,4',5',6-HpBDE

2,2',3,4,4',5'-HxBDE

2,2',3,4,4',5,5',6-OcbDE

2,2',3,4,4',5,5'-HpBDE

2,2',3,4,4',5,6,6'-OcbDE

2,2',3,4,4',6'-HxBDE

2,2',3,4,4',6-HxBDE

2,2',3,4,4',6,6'-HpBDE

2,2',3,4,4'-PeBDE

2,2',4-TrBDE

2,2',4,4',5-PeBDE

2,2',4,4',5,5'-HxBB

2,2',4,4',5,5'-HxBDE

2,2',4,4',5,6'-HxBDE

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2,2',4,4',6-PeBDE  
2,2',4,4'-TeBDE  
2,2',4,5'-TeBDE  
2,3',4',6-TeBDE  
2,3',4,4',6-PeBDE  
2,3',4,4'-TeBDE  
2,3,3',4,4',5',6-HpBDE  
2,3,3',4,4',5,3',4,4',5,5'-HxBDE  
2,3,3',4,4',5,5',6-OcBDE  
2,4-DiBDE  
2,4,4'-TrBDE  
2,4,6-TrBDE  
2,6-DiBDE  
3,3',4,4',5-PeBDE  
3,3',4,4'-TeBDE  
4,4'-DiBDE  
DeBDE

**Food (Organic)**

Polychlorinated Dibenzo(p)dioxins and Dibenzofurans (PCDD/PCDF) - Food (011)  
SOP LAB01F; modified from EPA 1613B  
HRGC/HRMS-EXTRACTION

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-TCDD  
2,3,7,8-TCDF  
OCDD  
OCDF  
Total HpCDD  
Total HpCDF  
Total HxCDD  
Total HxCDF  
Total PeCDD  
Total PeCDF  
Total TCDD  
Total TCDF

**Food (Organic)**

Polychlorinated Biphenyls (PCB) - Food (012)  
SOP LAB02F; modified from EPA 1668C  
HRGC/HRMS-EXTRACTION

2-MoCB (PCB-001)  
2,2',3-TrCB (PCB-016)  
2,2',3,3',4-PeCB (PCB-082)

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2,2',3,3',4,4',5-HpCB (PCB-170)  
 2,2',3,3',4,4',5,5',6-NoCB (PCB-206)  
 2,2',3,3',4,4',5,5',6,6'-DeCB (PCB-209)  
 2,2',3,3',4,4',5,5'-OcCB (PCB-194)  
 2,2',3,3',4,4',5,6'-OcCB (PCB-196)  
 2,2',3,3',4,4',5,6-OcCB (PCB-195)  
 2,2',3,3',4,4',5,6,6'-NoCB (PCB-207)  
 2,2',3,3',4,4',6-HpCB (PCB-171)  
 2,2',3,3',4,4',6,6'-OcCB (PCB-197)  
 2,2',3,3',4,4'/2,3,3',4',5,5'-HxCB (PCB-128/162)  
 2,2',3,3',4,5',6'-HpCB (PCB-177)  
 2,2',3,3',4,5',6-HpCB (PCB-175)  
 2,2',3,3',4,5',6,6'-OcCB (PCB-201)  
 2,2',3,3',4,5'-HxCB (PCB-130)  
 2,2',3,3',4,5-HxCB (PCB-129)  
 2,2',3,3',4,5,5',6'-OcCB (PCB-199)  
 2,2',3,3',4,5,5',6-OcCB (PCB-198)  
 2,2',3,3',4,5,5',6,6'-NoCB (PCB-208)  
 2,2',3,3',4,5,5'-HpCB (PCB-172)  
 2,2',3,3',4,5,6'-HpCB (PCB-174)  
 2,2',3,3',4,5,6-HpCB (PCB-173)  
 2,2',3,3',4,5,6,6'-OcCB (PCB-200)  
 2,2',3,3',4,6'/2,3,3',4,5',6 - HxCB (PCB-132/161)  
 2,2',3,3',4,6/2,2',3,3',5,5'-HxCB (PCB-131/133)  
 2,2',3,3',4,6,6'-HpCB (PCB-176)  
 2,2',3,3',5-PeCB (PCB-083)  
 2,2',3,3',5,5',6-HpCB (PCB-178)  
 2,2',3,3',5,5',6,6'-OcCB (PCB-202)  
 2,2',3,3',5,6'-HxCB (PCB-135)  
 2,2',3,3',5,6-HxCB (PCB-134)  
 2,2',3,3',5,6,6'-HpCB (PCB-179)  
 2,2',3,3',6/2,3',4,5',6-PeCB (PCB-084/121)  
 2,2',3,3',6,6'/2,2',3,4',5,6'-HxCB (PCB-136/148)  
 2,2',3,3'-TeCB (PCB-040)  
 2,2',3,4',5-PeCB (PCB-090)  
 2,2',3,4',5,5'-HxCB (PCB-146)  
 2,2',3,4',5,6-HxCB (PCB-147)  
 2,2',3,4',5,6,6'-HpCB (PCB-188)  
 2,2',3,4',6-PeCB (PCB-091)  
 2,2',3,4',6,6'-HxCB (PCB-150)  
 2,2',3,4'-TeCB (PCB-042)  
 2,2',3,4'-TeCB (PCB-041)  
 2,2',3,4,4',5',6-HpCB (PCB-183)  
 2,2',3,4,4',5'-HxCB (PCB-138)  
 2,2',3,4,4',5-HxCB (PCB-137)  
 2,2',3,4,4',5,5',6-OcCB (PCB-203)  
 2,2',3,4,4',5,5'-HpCB (PCB-180)  
 2,2',3,4,4',5,6'/2,2',3,4',5,5',6-HxCB (PCB-182/187)  
 2,2',3,4,4',5,6-HpCB (PCB-181)  
 2,2',3,4,4',5,6,6'-OcCB (PCB-204)  
 2,2',3,4,4',6'-HxCB (PCB-140)  
 2,2',3,4,4',6/2,2',3,4',5',6-HxCB (PCB-139/149)  
 2,2',3,4,4',6,6'-HpCB (PCB-184)

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2,2',3,4,4'-PeCB (PCB-085)  
2,2',3,4,5',6-HxCB (PCB-144)  
2,2',3,4,5'/2,3,4,4',6-PeCB (PCB-087/115)  
2,2',3,4,5'/2,2',3,4,5'/2,3,4,5,6-PeCB (PCB-086/097/117)  
2,2',3,4,5,5',6-HpCB (PCB-185)  
2,2',3,4,5,5'-HxCB (PCB-141)  
2,2',3,4,5,6'-HxCB (PCB-143)  
2,2',3,4,5,6-HxCB (PCB-142)  
2,2',3,4,5,6,6'-HpCB (PCB-186)  
2,2',3,4,6'-PeCB (PCB-089)  
2,2',3,4,6-PeCB (PCB-088)  
2,2',3,4,6,6'-HxCB (PCB-145)  
2,2',3,5',6-PeCB (PCB-095)  
2,2',3,5'-TeCB (PCB-044)  
2,2',3,5-TeCB (PCB-043)  
2,2',3,5,5',6-HxCB (PCB-151)  
2,2',3,5,5'-PeCB (PCB-092)  
2,2',3,5,6'-PeCB (PCB-094)  
2,2',3,5,6/2,2',3,4,6'/2,2',4,5,6'-PeCB (PCB-093/098/102)  
2,2',3,5,6,6'-HxCB (PCB-152)  
2,2',3,6'-TeCB (PCB-046)  
2,2',3,6-TeCB (PCB-045)  
2,2',3,6,6'-PeCB (PCB-096)  
2,2',4-TrCB (PCB-017)  
2,2',4,4',5-PeCB (PCB-099)  
2,2',4,4',5,5'-HxCB (PCB-153)  
2,2',4,4',5,6'-HxCB (PCB-154)  
2,2',4,4',6-PeCB (PCB-100)  
2,2',4,4',6,6'-HxCB (PCB-155)  
2,2',4,4'/2,2',4,5-TeCB (PCB-047/048)  
2,2',4,5',6-PeCB (PCB-103)  
2,2',4,5'-TeCB (PCB-049)  
2,2',4,5,5'-PeCB (PCB-101)  
2,2',4,6'-TeCB (PCB-051)  
2,2',4,6-TeCB (PCB-050)  
2,2',4,6,6'-PeCB (PCB-104)  
2,2',5-TrCB (PCB-018)  
2,2',5,5'/2,3',4,6-TeCB (PCB-052/069)  
2,2',5,6'-TeCB (PCB-053)  
2,2',6-TrCB (PCB-019)  
2,2',6,6'-TeCB (PCB-054)  
2,2'-DiCB (PCB-004)  
2,3',4',5'-TeCB (PCB-076)  
2,3',4',5-TeCB (PCB-070)  
2,3',4',5,5'-PeCB (PCB-124)  
2,3',4',6-TeCB (PCB-071)  
2,3',4-TrCB (PCB-025)  
2,3',4,4',5',6-HxCB (PCB-168)  
2,3',4,4',5'-PeCB (PCB-123)  
2,3',4,4',5-PeCB (PCB-118)  
2,3',4,4',5,5'-HxCB (PCB-167)  
2,3',4,4'-TeCB (PCB-066)  
2,3',4,5'-TeCB (PCB-068)

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2,3',4,5-TeCB (PCB-067)  
2,3',4,5,5'-PeCB (PCB-120)  
2,3',5',6-TeCB (PCB-073)  
2,3',5'-TrCB (PCB-034)  
2,3',5-TrCB (PCB-026)  
2,3',6-TrCB (PCB-027)  
2,3'-DiCB (PCB-006)  
2,3/2,4'-DiCB (PCB-005/008)  
2,3,3',4',5'-PeCB (PCB-122)  
2,3,3',4',5/2,3,3',4,5'-PeCB (PCB-107/108)  
2,3,3',4',5,5',6-HpCB (PCB-193)  
2,3,3',4',5,6/2,3,3',4',5',6-HxCB (PCB-163/164)  
2,3,3',4',6-PeCB (PCB-110)  
2,3,3',4'-TeCB (PCB-056)  
2,3,3',4-TeCB (PCB-055)  
2,3,3',4,4',5',6-HpCB (PCB-191)  
2,3,3',4,4',5'-HxCB (PCB-157)  
2,3,3',4,4',5-HxCB (PCB-156)  
2,3,3',4,4',5,5',6-OcCB (PCB-205)  
2,3,3',4,4',5,5'-HpCB (PCB-189)  
2,3,3',4,4',5,6-HpCB (PCB-190)  
2,3,3',4,4',6-HxCB (PCB-158)  
2,3,3',4,4'/3,3',4,5,5' PeCB (PCB-105/127)  
2,3,3',4,5-PeCB (PCB-106)  
2,3,3',4,5,5',6-HpCB (PCB-192)  
2,3,3',4,5,5'-HxCB (PCB-159)  
2,3,3',4,5,6-HxCB (PCB-160)  
2,3,3',4,6-PeCB (PCB-109)  
2,3,3',5',6-PeCB (PCB-113)  
2,3,3',5'-TeCB (PCB-058)  
2,3,3',5-TeCB (PCB-057)  
2,3,3',5,5',6-HxCB (PCB-165)  
2,3,3',5,5'-PeCB (PCB-111)  
2,3,3',5,6/2,3',4,4',6-PeCB (PCB-112/119)  
2,3,3',6-TeCB (PCB-059)  
2,3,3'/2,3',4'TrCB (PCB-020/033)  
2,3,4',5-TeCB (PCB-063)  
2,3,4',6/2,3',5,5'-TeCB (PCB-064/072)  
2,3,4'-TrCB (PCB-022)  
2,3,4-TrCB (PCB-021)  
2,3,4,4',5-PeCB (PCB-114)  
2,3,4,4',5,6-HxCB (PCB-166)  
2,3,4,4'-TeCB (PCB-060)  
2,3,4,5-TeCB (PCB-061)  
2,3,4,5,6/2,3',4',5',6-PeCB (PCB-116/125)  
2,3,4,6-TeCB (PCB-062)  
2,3,5-TrCB (PCB-023)  
2,3,5,6/2,4,4',6-TeCB (PCB-065/075)  
2,3,6-TrCB (PCB-024)  
2,4',5-TrCB (PCB-031)  
2,4',6-TrCB (PCB-032)  
2,4-DiCB (PCB-007)  
2,4,4',5-TeCB (PCB-074)

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2,4,4'-TrCB (PCB-028)  
2,4,5-TrCB (PCB-029)  
2,4,6-TrCB (PCB-030)  
2,5-DiCB (PCB-009)  
2,6-DiCB (PCB-010)  
3-MoCB (PCB-002)  
3,3',4-TrCB (PCB-035)  
3,3',4,4',5-PeCB (PCB-126)  
3,3',4,4',5,5'-HxCB (PCB-169)  
3,3',4,4'-TeCB (PCB-077)  
3,3',4,5'-TeCB (PCB-079)  
3,3',4,5-TeCB (PCB-078)  
3,3',5-TrCB (PCB-036)  
3,3',5,5'-TeCB (PCB-080)  
3,3'-DiCB (PCB-011)  
3,4',5-TrCB (PCB-039)  
3,4/3,4'-DiCB (PCB-012/013)  
3,4,4',5-TeCB (PCB-081)  
3,4,4'-TrCB (PCB-037)  
3,4,5-TrCB (PCB-038)  
3,5-DiCB (PCB-014)  
4-MoCB (PCB-003)  
4,4'-DiCB (PCB-015)  
Total Dichlorobiphenyls  
Total Heptachlorobiphenyls  
Total Hexachlorobiphenyls  
Total Monochlorobiphenyls  
Total Nonachlorobiphenyls  
Total Octachlorobiphenyls  
Total Pentachlorobiphenyls  
Total Tetrachlorobiphenyls  
Total Trichlorobiphenyls

#### **Food (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Food (010)

SOP LAB03F; IN-HOUSE

HRGC/HRMS-EXTRACTION

Acenaphthene  
Acenaphthylene  
Anthracene  
Benz(a)anthracene  
Benzo(a)pyrene  
Benzo(b+j)fluoranthene  
Benzo(ghi)perylene  
Benzo(k)fluoranthene  
Chrysene  
Dibenz(a,h)anthracene  
Fluoranthene  
Fluorene  
Indeno(1,2,3-cd)pyrene  
Naphthalene  
Phenanthrene  
Pyrene

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**Solids (Organic)**

Brominated Flame Retardants - Soil, Sediment (014)

SOP LAB06; modified from EPA 1614

HRGC/HRMS-EXTRACTION

2,2',3,3',4,4',5,5',6-NoBDE  
2,2',3,3',4,4',5,5',6,6'-DeBDE  
2,2',3,3',4,4',5,6'-OcBDE  
2,2',3,3',4,4',5,6,6'-NoBDE  
2,2',3,3',4,4',6-HpBDE  
2,2',3,3',4,4',6,6'/2,2',3,4,4',5,6,6'-OcBDE  
2,2',3,3',4,5',6,6'-OcBDE  
2,2',3,3',4,5,5',6,6'-NoBDE  
2,2',3,4,4',5',6-HpBDE  
2,2',3,4,4',5'-HxBDE  
2,2',3,4,4',5,5',6-OcBDE  
2,2',3,4,4',5,5'-HpBDE  
2,2',3,4,4',6'-HxBDE  
2,2',3,4,4',6-HxBDE  
2,2',3,4,4',6,6'-HpBDE  
2,2',3,4,4'-PeBDE  
2,2',4-TrBDE  
2,2',4,4',5-PeBDE  
2,2',4,4',5,5'-HxBB  
2,2',4,4',5,5'-HxBDE  
2,2',4,4',5,6'-HxBDE  
2,2',4,4',6-PeBDE  
2,2',4,4'-TeBDE  
2,2',4,5'-TeBDE  
2,3',4',6-TeBDE  
2,3',4,4',6-PeBDE  
2,3',4,4'-TeBDE  
2,3,3',4,4',5',6-HpBDE  
2,3,3',4,4',5/3,3',4,4',5,5'-HxBDE  
2,3,3',4,4',5,5',6-OcBDE  
2,4-DiBDE  
2,4,4'-TrBDE  
2,4,6-TrBDE  
2,6-DiBDE  
3,3',4,4',5-PeBDE  
3,3',4,4'-TeBDE  
4,4'-DiBDE

**Solids (Organic)**

Organochlorine Pesticides (OC) - Soil, Sediment, Biosolids (019)

SOP LAB012; EPA 1699

HRGC/HRMS-EXTRACTION

a-Chlordane (cis)  
Aldrin  
alpha-HCH  
beta-HCH  
cis-Nonachlor  
delta-HCH  
Dieldrin  
Endosulphan I

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Endosulphan II  
Endosulphan Sulphate  
Endrin  
γ-Chlordane (trans)  
Heptachlor  
Heptachlor Epoxide  
Hexachlorobenzene  
Lindane (γ HCH)  
Methoxychlor  
Mirex  
o,p'-DDD  
o,p'-DDE  
o,p'-DDT  
Oxychlordane  
p,p'-DDD  
p,p'-DDE  
p,p'-DDT  
Pentachlorobenzene  
Toxaphene Parar 26  
Toxaphene Parar 50  
Toxaphene Parar 62

**Solids (Organic)**

PAHs and Alkylated PAHs - Soil, Sediment (023)

SOP LAB013; IN-HOUSE

GC/MS/MS - EXTRACTION

1-ethylpyrene  
1-methylbenz(a)anthracene  
1-methylnaphthalene  
1-methylnaphthalene  
1-methylpyrene  
1,5-phenanthrene  
1,7-phenanthrene  
2-methylnaphthalene  
2-methylnaphthalene  
2,3,5 naphthalene  
2,6-phenanthrene  
3-methyl cholanthrene  
5-methylchrysene  
6-ethylchrysene  
6-methylbenzo(a)pyrene  
6-methylchrysene  
7-methylbenz(a)anthracene  
7-methylbenzo(a)pyrene  
7,12-dimethylbenz(a)anthracene  
7H-dibenzo(e,g)carbazole  
acenaphthene  
acenaphthylene  
anthracene  
benzo(a)anthracene  
benzo(a)pyrene  
benzo(b)fluoranthene  
benzo(e)pyrene  
benzo(q)chrysene

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benzo(ghi)perylene  
benzo(k)fluoranthene  
biphenyl  
C1-acenaphthene  
C1-benzanthracene/chrysene  
C1-benzofluoranthene/benzopyrene  
C1-biphenyl  
C1-dibenzothiophene  
C1-fluoranthene/pyrene  
C1-fluoranthene/pyrene  
C1-fluorene  
C1-naphthalene  
C1-phenanthrene/anthracene  
C2-benzanthracene/chrysene  
C2-benzofluoranthene/benzopyrene  
C2-biphenyl/acenaphthene  
C2-dibenzothiophene  
C2-fluorene  
C2-naphthalene  
C2-phenanthrene/anthracene  
C3-dibenzothiophene  
C3-naphthalene  
C3-phenanthrene/anthracene  
C4-dibenzothiophene  
C4-naphthalene  
C4-phenanthrene/anthracene  
chrysene  
cyclopenta(cd)pyrene  
dibenz(a,h)acridine  
dibenz(a,i)acridine  
dibenz(ah)anthracene  
dibenzo(a,e)fluoranthene  
dibenzo(a,e)pyrene  
dibenzo(a,h)pyrene  
dibenzo(a,i)pyrene  
dibenzo(a,l)pyrene  
dibenzothiophene  
fluoranthene  
fluorene  
indeno(123cd)pyrene  
naphthalene  
perylene  
phenanthrene  
pyrene  
retene

#### **Solids (Organic)**

Polychlorinated Biphenyls (PCB) - Soil, Sediment (004)

SOP LAB02; modified from EPA 1668C

HRGC/HRMS-EXTRACTION

2-MoCB (PCB-001)

2,2',3-TrCB (PCB-016)

2,2',3,3',4-PeCB (PCB-082)

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

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2,2',3,3',4,4',5,5',6-NoCB (PCB-206)  
2,2',3,3',4,4',5,5',6,6'-DeCB (PCB-209)  
2,2',3,3',4,4',5,5'-OcCB (PCB-194)  
2,2',3,3',4,4',5,6'-OcCB (PCB-196)  
2,2',3,3',4,4',5,6-OcCB (PCB-195)  
2,2',3,3',4,4',5,6,6'-NoCB (PCB-207)  
2,2',3,3',4,4',6-HpCB (PCB-171)  
2,2',3,3',4,4',6,6'-OcCB (PCB-197)  
2,2',3,3',4,4'/2,3,3',4',5,5'-HxCB (PCB-128/162)  
2,2',3,3',4,5',6'-HpCB (PCB-177)  
2,2',3,3',4,5',6-HpCB (PCB-175)  
2,2',3,3',4,5',6,6'-OcCB (PCB-201)  
2,2',3,3',4,5'-HxCB (PCB-130)  
2,2',3,3',4,5-HxCB (PCB-129)  
2,2',3,3',4,5,5',6'-OcCB (PCB-199)  
2,2',3,3',4,5,5',6-OcCB (PCB-198)  
2,2',3,3',4,5,5',6,6'-NoCB (PCB-208)  
2,2',3,3',4,5,5'-HpCB (PCB-172)  
2,2',3,3',4,5,6'-HpCB (PCB-174)  
2,2',3,3',4,5,6-HpCB (PCB-173)  
2,2',3,3',4,5,6,6'-OcCB (PCB-200)  
2,2',3,3',4,6'/2,3,3',4,5',6 - HxCB (PCB-132/161)  
2,2',3,3',4,6/2,2',3,3',5,5'-HxCB (PCB-131/133)  
2,2',3,3',4,6,6'-HpCB (PCB-176)  
2,2',3,3',5-PeCB (PCB-083)  
2,2',3,3',5,5',6-HpCB (PCB-178)  
2,2',3,3',5,5',6,6'-OcCB (PCB-202)  
2,2',3,3',5,6'-HxCB (PCB-135)  
2,2',3,3',5,6-HxCB (PCB-134)  
2,2',3,3',5,6,6'-HpCB (PCB-179)  
2,2',3,3',6/2,3',4,5',6-PeCB (PCB-084/121)  
2,2',3,3',6,6'/2,2',3,4',5,6'-HxCB (PCB-136/148)  
2,2',3,3'-TeCB (PCB-040)  
2,2',3,4',5-PeCB (PCB-090)  
2,2',3,4',5,5'-HxCB (PCB-146)  
2,2',3,4',5,6-HxCB (PCB-147)  
2,2',3,4',5,6,6'-HpCB (PCB-188)  
2,2',3,4',6-PeCB (PCB-091)  
2,2',3,4',6,6'-HxCB (PCB-150)  
2,2',3,4'-TeCB (PCB-042)  
2,2',3,4'-TeCB (PCB-041)  
2,2',3,4,4',5',6-HpCB (PCB-183)  
2,2',3,4,4',5'-HxCB (PCB-138)  
2,2',3,4,4',5-HxCB (PCB-137)  
2,2',3,4,4',5,5',6-OcCB (PCB-203)  
2,2',3,4,4',5,5'-HpCB (PCB-180)  
2,2',3,4,4',5,6'/2,2',3,4',5,5',6-HxCB (PCB-182/187)  
2,2',3,4,4',5,6-HpCB (PCB-181)  
2,2',3,4,4',5,6,6'-OcCB (PCB-204)  
2,2',3,4,4',6'-HxCB (PCB-140)  
2,2',3,4,4',6/2,2',3,4',5',6-HxCB (PCB-139/149)  
2,2',3,4,4',6,6'-HpCB (PCB-184)  
2,2',3,4,4'-PeCB (PCB-085)

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2,2',3,4,5',6-HxCB (PCB-144)  
2,2',3,4,5'/2,3,4,4',6-PeCB (PCB-087/115)  
2,2',3,4,5'/2,2',3,4',5'/2,3,4',5,6-PeCB (PCB-086/097/117)  
2,2',3,4,5,5',6-HpCB (PCB-185)  
2,2',3,4,5,5'-HxCB (PCB-141)  
2,2',3,4,5,6'-HxCB (PCB-143)  
2,2',3,4,5,6-HxCB (PCB-142)  
2,2',3,4,5,6,6'-HpCB (PCB-186)  
2,2',3,4,6'-PeCB (PCB-089)  
2,2',3,4,6-PeCB (PCB-088)  
2,2',3,4,6,6'-HxCB (PCB-145)  
2,2',3,5',6-PeCB (PCB-095)  
2,2',3,5'-TeCB (PCB-044)  
2,2',3,5-TeCB (PCB-043)  
2,2',3,5,5',6-HxCB (PCB-151)  
2,2',3,5,5'-PeCB (PCB-092)  
2,2',3,5,6'-PeCB (PCB-094)  
2,2',3,5,6/2,2',3,4',6'/2,2',4,5,6'-PeCB (PCB-093/098/102)  
2,2',3,5,6,6'-HxCB (PCB-152)  
2,2',3,6'-TeCB (PCB-046)  
2,2',3,6-TeCB (PCB-045)  
2,2',3,6,6'-PeCB (PCB-096)  
2,2',4-TrCB (PCB-017)  
2,2',4,4',5-PeCB (PCB-099)  
2,2',4,4',5,5'-HxCB (PCB-153)  
2,2',4,4',5,6'-HxCB (PCB-154)  
2,2',4,4',6-PeCB (PCB-100)  
2,2',4,4',6,6'-HxCB (PCB-155)  
2,2',4,4'/2,2',4,5-TeCB (PCB-047/048)  
2,2',4,5',6-PeCB (PCB-103)  
2,2',4,5'-TeCB (PCB-049)  
2,2',4,5,5'-PeCB (PCB-101)  
2,2',4,6'-TeCB (PCB-051)  
2,2',4,6-TeCB (PCB-050)  
2,2',4,6,6'-PeCB (PCB-104)  
2,2',5-TrCB (PCB-018)  
2,2',5,5'/2,3',4,6-TeCB (PCB-052/069)  
2,2',5,6'-TeCB (PCB-053)  
2,2',6-TrCB (PCB-019)  
2,2',6,6'-TeCB (PCB-054)  
2,2'-DiCB (PCB-004)  
2,3',4',5'-TeCB (PCB-076)  
2,3',4',5-TeCB (PCB-070)  
2,3',4',5,5'-PeCB (PCB-124)  
2,3',4',6-TeCB (PCB-071)  
2,3',4-TrCB (PCB-025)  
2,3',4,4',5',6-HxCB (PCB-168)  
2,3',4,4',5'-PeCB (PCB-123)  
2,3',4,4',5-PeCB (PCB-118)  
2,3',4,4',5,5'-HxCB (PCB-167)  
2,3',4,4'-TeCB (PCB-066)  
2,3',4,5'-TeCB (PCB-068)  
2,3',4,5-TeCB (PCB-067)

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2,3',4,5,5'-PeCB (PCB-120)  
2,3',5',6-TeCB (PCB-073)  
2,3',5'-TrCB (PCB-034)  
2,3',5-TrCB (PCB-026)  
2,3',6-TrCB (PCB-027)  
2,3'-DiCB (PCB-006)  
2,3/2,4'-DiCB (PCB-005/008)  
2,3,3',4',5'-PeCB (PCB-122)  
2,3,3',4',5/2,3,3',4',5'-PeCB (PCB-107/108)  
2,3,3',4',5,5',6-HpCB (PCB-193)  
2,3,3',4',5,6/2,3,3',4',5',6-HxCB (PCB-163/164)  
2,3,3',4',6-PeCB (PCB-110)  
2,3,3',4'-TeCB (PCB-056)  
2,3,3',4-TeCB (PCB-055)  
2,3,3',4,4',5',6-HpCB (PCB-191)  
2,3,3',4,4',5'-HxCB (PCB-157)  
2,3,3',4,4',5-HxCB (PCB-156)  
2,3,3',4,4',5,5',6-OcCB (PCB-205)  
2,3,3',4,4',5,5'-HpCB (PCB-189)  
2,3,3',4,4',5,6-HpCB (PCB-190)  
2,3,3',4,4',6-HxCB (PCB-158)  
2,3,3',4,4'/3,3',4,5,5' - PeCB (PCB-105/127)  
2,3,3',4,5-PeCB (PCB-106)  
2,3,3',4,5,5',6-HpCB (PCB-192)  
2,3,3',4,5,5'-HxCB (PCB-159)  
2,3,3',4,5,6-HxCB (PCB-160)  
2,3,3',4,6-PeCB (PCB-109)  
2,3,3',5',6-PeCB (PCB-113)  
2,3,3',5'-TeCB (PCB-058)  
2,3,3',5-TeCB (PCB-057)  
2,3,3',5,5',6-HxCB (PCB-165)  
2,3,3',5,5'-PeCB (PCB-111)  
2,3,3',5,6/2,3',4,4',6-PeCB (PCB-112/119)  
2,3,3',6-TeCB (PCB-059)  
2,3,3'/2,3',4'TrCB (PCB-020/033)  
2,3,4',5-TeCB (PCB-063)  
2,3,4',6/2,3',5,5'-TeCB (PCB-064/072)  
2,3,4'-TrCB (PCB-022)  
2,3,4-TrCB (PCB-021)  
2,3,4,4',5-PeCB (PCB-114)  
2,3,4,4',5,6-HxCB (PCB-166)  
2,3,4,4'-TeCB (PCB-060)  
2,3,4,5-TeCB (PCB-061)  
2,3,4,5,6/2,3',4',5',6-PeCB (PCB-116/125)  
2,3,4,6-TeCB (PCB-062)  
2,3,5-TrCB (PCB-023)  
2,3,5,6/2,4,4',6-TeCB (PCB-065/075)  
2,3,6-TrCB (PCB-024)  
2,4',5-TrCB (PCB-031)  
2,4',6-TrCB (PCB-032)  
2,4-DiCB (PCB-007)  
2,4,4',5-TeCB (PCB-074)  
2,4,4'-TrCB (PCB-028)

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2,4,5-TrCB (PCB-029)  
2,4,6-TrCB (PCB-030)  
2,5-DiCB (PCB-009)  
2,6-DiCB (PCB-010)  
3-MoCB (PCB-002)  
3,3',4-TrCB (PCB-035)  
3,3',4,4',5-PeCB (PCB-126)  
3,3',4,4',5,5'-HxCB (PCB-169)  
3,3',4,4'-TeCB (PCB-077)  
3,3',4,5'-TeCB (PCB-079)  
3,3',4,5-TeCB (PCB-078)  
3,3',5-TrCB (PCB-036)  
3,3',5,5'-TeCB (PCB-080)  
3,3'-DiCB (PCB-011)  
3,4',5-TrCB (PCB-039)  
3,4/3,4'-DiCB (PCB-012/013)  
3,4,4',5-TeCB (PCB-081)  
3,4,4'-TrCB (PCB-037)  
3,4,5-TrCB (PCB-038)  
3,5-DiCB (PCB-014)  
4-MoCB (PCB-003)  
4,4'-DiCB (PCB-015)  
Total Dichlorobiphenyls  
Total Heptachlorobiphenyls  
Total Hexachlorobiphenyls  
Total Monochlorobiphenyls  
Total Nonachlorobiphenyls  
Total Octachlorobiphenyls  
Total Pentachlorobiphenyls  
Total Tetrachlorobiphenyls  
Total Trichlorobiphenyls

#### **Solids (Organic)**

Polychlorinated Dibenzo(p)dioxins and Dibenzofurans (PCDD/PCDF) - Soil, Sediment (006)  
SOP LAB01; modified from EPA 1613B  
HRGC/HRMS-EXTRACTION

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-TCDD  
2,3,7,8-TCDF  
OCDD  
OCDF  
Total HpCDD

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Total HpCDF  
Total HxCDD  
Total HxCDF  
Total PeCDD  
Total PeCDF  
Total TCDD  
Total TCDF

**Solids (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Soil, Sediment (003)

SOP LAB03; IN-HOUSE

HRGC/HRMS-EXTRACTION

Acenaphthene  
Acenaphthylene  
Anthracene  
Benz(a)anthracene  
Benzo(a)pyrene  
Benzo(b+j)fluoranthene  
Benzo(ghi)perylene  
Benzo(k)fluoranthene  
Chrysene  
Dibenz(a,h)anthracene  
Fluoranthene  
Fluorene  
Indeno(1,2,3-cd)pyrene  
Naphthalene  
Phenanthrene  
Pyrene

**Solids (Organic)**

Tributyltins- Soil, Sediment (009)

SOP LAB04; IN-HOUSE

HRGC/HRMS-EXTRACTION

Dibutyltin dichloride  
Monobutyltin trichloride  
Tributyltin Chloride

**Tissue (Organic)**

Brominated Flame Retardants - Tissue (015)

SOP LAB06; modified from EPA 1614

HRGC/HRMS-EXTRACTION

2,2',3,3',4,4',5,5',6-NoBDE  
2,2',3,3',4,4',5,5',6,6'-DeBDE  
2,2',3,3',4,4',5,6'-OcBDE  
2,2',3,3',4,4',5,6,6'-NoBDE  
2,2',3,3',4,4',6-HpBDE  
2,2',3,3',4,4',6,6'/2,2',3,4,4',5,6,6'-OcBDE  
2,2',3,3',4,5',6,6'-OcBDE  
2,2',3,3',4,5,5',6,6'-NoBDE  
2,2',3,4,4',5',6-HpBDE  
2,2',3,4,4',5'-HxBDE  
2,2',3,4,4',5,5',6-OcBDE  
2,2',3,4,4',5,5'-HpBDE  
2,2',3,4,4',6'-HxBDE  
2,2',3,4,4',6-HxBDE  
2,2',3,4,4',6,6'-HpBDE

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2,2',3,4,4'-PeBDE  
2,2',4-TrBDE  
2,2',4,4',5-PeBDE  
2,2',4,4',5,5'-HxBB  
2,2',4,4',5,5'-HxBDE  
2,2',4,4',5,6'-HxBDE  
2,2',4,4',6-PeBDE  
2,2',4,4'-TeBDE  
2,2',4,5'-TeBDE  
2,3',4',6-TeBDE  
2,3',4,4',6-PeBDE  
2,3',4,4'-TeBDE  
2,3,3',4,4',5',6-HpBDE  
2,3,3',4,4',5/3,3',4,4',5,5'-HxBDE  
2,3,3',4,4',5,5',6-OcBDE  
2,4-DiBDE  
2,4,4'-TrBDE  
2,4,6-TrBDE  
2,6-DiBDE  
3,3',4,4',5-PeBDE  
3,3',4,4'-TeBDE  
4,4'-DiBDE

### **Tissue (Organic)**

Organochlorine Pesticides (OC) - Tissue (020)

SOP LAB012; EPA 1699

HRGC/HRMS-EXTRACTION

a-Chlordane (cis)

Aldrin

alpha-HCH

beta-HCH

cis-Nonachlor

delta-HCH

Dieldrin

Endosulphan I

Endosulphan II

Endosulphan Sulphate

Endrin

q-Chlordane (trans)

Heptachlor

Heptachlor Epoxide

Hexachlorobenzene

Lindane (gamma HCH)

Methoxychlor

Mirex

o,p'-DDD

o,p'-DDE

o,p'-DDT

Oxychlordane

p,p'-DDD

p,p'-DDE

p,p'-DDT

Pentachlorobenzene

Toxaphene Parar 26

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Toxaphene Parar 50  
Toxaphene Parar 62

**Tissue (Organic)**

PAHs and Alkylated PAHs - Tissue (024)

SOP LAB013; IN-HOUSE

GC/MS/MS - EXTRACTION

1-ethylpyrene  
1-methylbenz(a)anthracene  
1-methylnaphthalene  
1-methylnaphthalene  
1-methylpyrene  
1,5-phenanthrene  
1,7-phenanthrene  
2-methylnaphthalene  
2-methylnaphthalene  
2,3,5 naphthalene  
2,6-phenanthrene  
3-methyl cholanthrene  
5-methylchrysene  
6-ethylchrysene  
6-methylbenzo(a)pyrene  
6-methylchrysene  
7-methylbenz(a)anthracene  
7-methylbenzo(a)pyrene  
7,12-dimethylbenz(a)anthracene  
7H-dibenzo(e,g)carbazole  
acenaphthene  
acenaphthylene  
anthracene  
benzo(a)anthracene  
benzo(a)pyrene  
benzo(b)fluoranthene  
benzo(e)pyrene  
benzo(g)chrysene  
benzo(ghi)perylene  
benzo(k)fluoranthene  
biphenyl  
C1-acenaphthene  
C1-benzanthracene/chrysene  
C1-benzofluoranthene/benzopyrene  
C1-biphenyl  
C1-dibenzothiophene  
C1-fluoranthene/pyrene  
C1-fluoranthene/pyrene  
C1-fluorene  
C1-naphthalene  
C1-phenanthrene/anthracene  
C2-benzanthracene/chrysene  
C2-benzofluoranthene/benzopyrene  
C2-biphenyl/acenaphthene  
C2-dibenzothiophene  
C2-fluorene  
C2-naphthalene

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C2-phenanthrene/anthracene  
C3-dibenzothiophene  
C3-naphthalene  
C3-phenanthrene/anthracene  
C4-dibenzothiophene  
C4-naphthalene  
C4-phenanthrene/anthracene  
chrysene  
cyclopenta(cd)pyrene  
dibenz(ah)anthracene  
dibenzacridines  
dibenzo(a,e)fluoranthene  
dibenzo(a,e)pyrene  
dibenzo(a,h)pyrene  
dibenzo(a,i)pyrene  
dibenzo(a,l)pyrene  
dibenzothiophene  
fluoranthene  
fluorene  
indeno(123cd)pyrene  
naphthalene  
perylene  
phenanthrene  
pyrene  
retene

#### **Tissue (Organic)**

Tributyltins - Tissue (013)

SOP LAB04; IN-HOUSE

HRGC/HRMS-EXTRACTION

Dibutyltin dichloride

Monobutyltin trichloride

Tributyltin Chloride

#### **Water (Organic)**

Brominated Flame Retardants - Water (016)

SOP LAB06; modified from EPA 1614

HRGC/HRMS-EXTRACTION

2,2',3,3',4,4',5,5',6-NoBDE

2,2',3,3',4,4',5,5',6,6'-DeBDE

2,2',3,3',4,4',5,6'-OcBDE

2,2',3,3',4,4',5,6,6'-NoBDE

2,2',3,3',4,4',6-HpBDE

2,2',3,3',4,4',6,6'/2,2',3,4,4',5,6,6'-OcBDE

2,2',3,3',4,5',6,6'-OcBDE

2,2',3,3',4,5,5',6,6'-NoBDE

2,2',3,4,4',5',6-HpBDE

2,2',3,4,4',5'-HxBDE

2,2',3,4,4',5,5',6-OcBDE

2,2',3,4,4',5,5'-HpBDE

2,2',3,4,4',6'-HxBDE

2,2',3,4,4',6-HxBDE

2,2',3,4,4',6,6'-HpBDE

2,2',3,4,4'-PeBDE

2,2',4-TrBDE

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2,2',4,4',5-PeBDE  
2,2',4,4',5,5'-HxBB  
2,2',4,4',5,5'-HxBDE  
2,2',4,4',5,6'-HxBDE  
2,2',4,4',6-PeBDE  
2,2',4,4'-TeBDE  
2,2',4,5'-TeBDE  
2,3',4',6-TeBDE  
2,3',4,4',6-PeBDE  
2,3',4,4'-TeBDE  
2,3,3',4,4',5',6-HpBDE  
2,3,3',4,4',5/3,3',4,4',5,5'-HxBDE  
2,3,3',4,4',5,5',6-OcBDE  
2,4-DiBDE  
2,4,4'-TrBDE  
2,4,6-TrBDE  
2,6-DiBDE  
3,3',4,4',5-PeBDE  
3,3',4,4'-TeBDE  
4,4'-DiBDE

#### **Water (Organic)**

Nitrosamines - Water (017)

SOP LAB05; ONTARIO MOE METHOD NDMA-E3291

HRGC/HRMS-EXTRACTION

N-nitroso-N-methylethylamine NMEA

N-nitrosodi-n-butylamine NDBA

N-nitrosodi-n-propylamine NDPA

N-nitrosodiethylamine NDEA

N-nitrosodimethylamine NDMA

N-nitrosomorpholine NMOR

N-nitrosopiperdine NPIP

N-nitrosopyrrolidine

#### **Water (Organic)**

Organochlorine Pesticides (OC) - Water (018)

SOP LAB012; EPA 1699

HRGC/HRMS-EXTRACTION

a-Chlordane (cis)

Aldrin

alpha-HCH

beta-HCH

cis-Nonachlor

delta-HCH

Dieldrin

Endosulphan I

Endosulphan II

Endosulphan Sulphate

Endrin

g-Chlordane (trans)

Heptachlor

Heptachlor Epoxide

Hexachlorobenzene

Lindane (gamma-HCH)

Methoxychlor

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Mirex  
o,p'-DDD  
o,p'-DDE  
o,p'-DDT  
Oxychlorane  
p,p'-DDD  
p,p'-DDE  
p,p'-DDT  
Pentachlorobenzene

**Water (Organic)**

PAHs and Alkylated PAHs - Water (022)

SOP LAB013; IN HOUSE

GC/MS/MS - EXTRACTION

1-ethylpyrene  
1-methylbenz(a)anthracene  
1-methylnaphthalene  
1-methylnaphthalene  
1-methylpyrene  
1,5-phenanthrene  
1,7-phenanthrene  
2-methylnaphthalene  
2-methylnaphthalene  
2,3,5 naphthalene  
2,6-phenanthrene  
3-methyl cholanthrene  
5-methylchrysene  
6-ethylchrysene  
6-methylbenzo(a)pyrene  
6-methylchrysene  
7-methylbenz(a)anthracene  
7-methylbenzo(a)pyrene  
7,12-dimethylbenz(a)anthracene  
7H-dibenzo(e,g)carbazole  
acenaphthene  
acenaphthylene  
acridine  
anthracene  
benzo(a)anthracene  
benzo(a)pyrene  
benzo(b)fluoranthene  
benzo(e)pyrene  
benzo(g)chrysene  
benzo(ghi)perylene  
benzo(k)fluoranthene  
biphenyl  
C1-acenaphthene  
C1-benzanthracene/chrysene  
C1-benzofluoranthene/benzopyrene  
C1-biphenyl  
C1-dibenzothiophene  
C1-fluoranthene/pyrene  
C1-fluoranthene/pyrene  
C1-fluorene

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C1-naphthalene  
C1-phenanthrene/anthracene  
C2-benzanthracene/chrysene  
C2-benzofluoranthene/benzopyrene  
C2-biphenyl/acenaphthene  
C2-dibenzothiophene  
C2-fluorene  
C2-naphthalene  
C2-phenanthrene/anthracene  
C3-dibenzothiophene  
C3-naphthalene  
C3-phenanthrene/anthracene  
C4-dibenzothiophene  
C4-naphthalene  
C4-phenanthrene/anthracene  
cyclopenta(cd)pyrene  
dibenz(a,h)acridine  
dibenz(a,i)acridine  
dibenz(ah)anthracene  
dibenzo(a,e)fluoranthene  
dibenzo(a,e)pyrene  
dibenzo(a,h)pyrene  
dibenzo(a,i)pyrene  
dibenzo(a,l)pyrene  
dibenzothiophene  
fluoranthene  
fluorene  
indeno(123cd)pyrene  
naphthalene  
perylene  
phenanthrene  
pyrene  
quinoline  
retene

#### **Water (Organic)**

Polychlorinated Biphenyls (PCB) - Water (001)

SOP LAB02; modified from EPA 1668C

HRGC/HRMS-EXTRACTION

2-MoCB (PCB-001)

2,2',3-TrCB (PCB-016)

2,2',3,3',4-PeCB (PCB-082)

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

2,2',3,3',4,4',5,5',6-NoCB (PCB-206)

2,2',3,3',4,4',5,5',6,6'-DeCB (PCB-209)

2,2',3,3',4,4',5,5'-OcCB (PCB-194)

2,2',3,3',4,4',5,6'-OcCB (PCB-196)

2,2',3,3',4,4',5,6-OcCB (PCB-195)

2,2',3,3',4,4',5,6,6'-NoCB (PCB-207)

2,2',3,3',4,4',6-HpCB (PCB-171)

2,2',3,3',4,4',6,6'-OcCB (PCB-197)

2,2',3,3',4,4'/2,3,3',4',5,5'-HxCB (PCB-128/162)

2,2',3,3',4,5',6'-HpCB (PCB-177)

2,2',3,3',4,5',6-HpCB (PCB-175)

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2,2',3,3',4,5',6,6'-OcCB (PCB-201)  
2,2',3,3',4,5'-HxCB (PCB-130)  
2,2',3,3',4,5-HxCB (PCB-129)  
2,2',3,3',4,5,5',6'-OcCB (PCB-199)  
2,2',3,3',4,5,5',6-OcCB (PCB-198)  
2,2',3,3',4,5,5',6,6'-NoCB (PCB-208)  
2,2',3,3',4,5,5'-HpCB (PCB-172)  
2,2',3,3',4,5,6'-HpCB (PCB-174)  
2,2',3,3',4,5,6-HpCB (PCB-173)  
2,2',3,3',4,5,6,6'-OcCB (PCB-200)  
2,2',3,3',4,6'/2,3,3',4,5',6- HxCB (PCB-132/161)  
2,2',3,3',4,6/2,2',3,3',5,5'-HxCB (PCB-131/133)  
2,2',3,3',4,6,6'-HpCB (PCB-176)  
2,2',3,3',5-PeCB (PCB-083)  
2,2',3,3',5,5',6-HpCB (PCB-178)  
2,2',3,3',5,5',6,6'-OcCB (PCB-202)  
2,2',3,3',5,6'-HxCB (PCB-135)  
2,2',3,3',5,6-HxCB (PCB-134)  
2,2',3,3',5,6,6'-HpCB (PCB-179)  
2,2',3,3',6/2,3',4,5',6-PeCB (PCB-084/121)  
2,2',3,3',6,6'/2,2',3,4',5,6'-HxCB (PCB-136/148)  
2,2',3,3'-TeCB (PCB-040)  
2,2',3,4',5-PeCB (PCB-090)  
2,2',3,4',5,5'-HxCB (PCB-146)  
2,2',3,4',5,6-HxCB (PCB-147)  
2,2',3,4',5,6,6'-HpCB (PCB-188)  
2,2',3,4',6-PeCB (PCB-091)  
2,2',3,4',6,6'-HxCB (PCB-150)  
2,2',3,4'-TeCB (PCB-042)  
2,2',3,4-TeCB (PCB-041)  
2,2',3,4,4',5',6-HpCB (PCB-183)  
2,2',3,4,4',5'-HxCB (PCB-138)  
2,2',3,4,4',5-HxCB (PCB-137)  
2,2',3,4,4',5,5',6-OcCB (PCB-203)  
2,2',3,4,4',5,5'-HpCB (PCB-180)  
2,2',3,4,4',5,6'/2,2',3,4',5,5',6-HxCB (PCB-182/187)  
2,2',3,4,4',5,6-HpCB (PCB-181)  
2,2',3,4,4',5,6,6'-OcCB (PCB-204)  
2,2',3,4,4',6'-HxCB (PCB-140)  
2,2',3,4,4',6/2,2',3,4',5',6-HxCB (PCB-139/149)  
2,2',3,4,4',6,6'-HpCB (PCB-184)  
2,2',3,4,4'-PeCB (PCB-085)  
2,2',3,4,5',6-HxCB (PCB-144)  
2,2',3,4,5'/2,3,4,4',6-PeCB (PCB-087/115)  
2,2',3,4,5/2,2',3,4',5'/2,3,4',5,6-PeCB (PCB-086/097/117)  
2,2',3,4,5,5',6-HpCB (PCB-185)  
2,2',3,4,5,5'-HxCB (PCB-141)  
2,2',3,4,5,6'-HxCB (PCB-143)  
2,2',3,4,5,6-HxCB (PCB-142)  
2,2',3,4,5,6,6'-HpCB (PCB-186)  
2,2',3,4,6'-PeCB (PCB-089)  
2,2',3,4,6-PeCB (PCB-088)  
2,2',3,4,6,6'-HxCB (PCB-145)

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2,2',3,5',6-PeCB (PCB-095)  
2,2',3,5'-TeCB (PCB-044)  
2,2',3,5-TeCB (PCB-043)  
2,2',3,5,5',6-HxCB (PCB-151)  
2,2',3,5,5'-PeCB (PCB-092)  
2,2',3,5,6'-PeCB (PCB-094)  
2,2',3,5,6/2,2',3,4',6'/2,2',4,5,6'-PeCB (PCB-093/098/102)  
2,2',3,5,6,6'-HxCB (PCB-152)  
2,2',3,6'-TeCB (PCB-046)  
2,2',3,6-TeCB (PCB-045)  
2,2',3,6,6'-PeCB (PCB-096)  
2,2',4-TrCB (PCB-017)  
2,2',4,4',5-PeCB (PCB-099)  
2,2',4,4',5,5'-HxCB (PCB-153)  
2,2',4,4',5,6'-HxCB (PCB-154)  
2,2',4,4',6-PeCB (PCB-100)  
2,2',4,4',6,6'-HxCB (PCB-155)  
2,2',4,4'/2,2',4,5-TeCB (PCB-047/048)  
2,2',4,5',6-PeCB (PCB-103)  
2,2',4,5'-TeCB (PCB-049)  
2,2',4,5,5'-PeCB (PCB-101)  
2,2',4,6'-TeCB (PCB-051)  
2,2',4,6-TeCB (PCB-050)  
2,2',4,6,6'-PeCB (PCB-104)  
2,2',5-TrCB (PCB-018)  
2,2',5,5'/2,3',4,6-TeCB (PCB-052/069)  
2,2',5,6'-TeCB (PCB-053)  
2,2',6-TrCB (PCB-019)  
2,2',6,6'-TeCB (PCB-054)  
2,2'-DiCB (PCB-004)  
2,3',4',5'-TeCB (PCB-076)  
2,3',4',5-TeCB (PCB-070)  
2,3',4',5,5'-PeCB (PCB-124)  
2,3',4',6-TeCB (PCB-071)  
2,3',4-TrCB (PCB-025)  
2,3',4,4',5',6-HxCB (PCB-168)  
2,3',4,4',5'-PeCB (PCB-123)  
2,3',4,4',5-PeCB (PCB-118)  
2,3',4,4',5,5'-HxCB (PCB-167)  
2,3',4,4'-TeCB (PCB-066)  
2,3',4,5'-TeCB (PCB-068)  
2,3',4,5-TeCB (PCB-067)  
2,3',4,5,5'-PeCB (PCB-120)  
2,3',5',6-TeCB (PCB-073)  
2,3',5'-TrCB (PCB-034)  
2,3',5-TrCB (PCB-026)  
2,3',6-TrCB (PCB-027)  
2,3'-DiCB (PCB-006)  
2,3/2,4'-DiCB (PCB-005/008)  
2,3,3',4',5'-PeCB (PCB-122)  
2,3,3',4',5/2,3,3',4,5'-PeCB (PCB-107/108)  
2,3,3',4',5,5',6-HpCB (PCB-193)  
2,3,3',4',5,6/2,3,3',4',5',6-HxCB (PCB-163/164)

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2,3,3',4',6-PeCB (PCB-110)  
 2,3,3',4'-TeCB (PCB-056)  
 2,3,3',4'-TeCB (PCB-055)  
 2,3,3',4,4',5',6-HpCB (PCB-191)  
 2,3,3',4,4',5'-HxCB (PCB-157)  
 2,3,3',4,4',5-HxCB (PCB-156)  
 2,3,3',4,4',5,5',6-OcCB (PCB-205)  
 2,3,3',4,4',5,5'-HpCB (PCB-189)  
 2,3,3',4,4',5,6-HpCB (PCB-190)  
 2,3,3',4,4',6-HxCB (PCB-158)  
 2,3,3',4,4'/3,3',4,5,5' - PeCB (PCB-105/127)  
 2,3,3',4,5-PeCB (PCB-106)  
 2,3,3',4,5,5',6-HpCB (PCB-192)  
 2,3,3',4,5,5'-HxCB (PCB-159)  
 2,3,3',4,5,6-HxCB (PCB-160)  
 2,3,3',4,6-PeCB (PCB-109)  
 2,3,3',5',6-PeCB (PCB-113)  
 2,3,3',5'-TeCB (PCB-058)  
 2,3,3',5'-TeCB (PCB-057)  
 2,3,3',5,5',6-HxCB (PCB-165)  
 2,3,3',5,5'-PeCB (PCB-111)  
 2,3,3',5,6/2,3',4,4',6-PeCB (PCB-112/119)  
 2,3,3',6'-TeCB (PCB-059)  
 2,3,3'/2,3',4'TrCB (PCB-020/033)  
 2,3,4',5'-TeCB (PCB-063)  
 2,3,4',6/2,3',5,5'-TeCB (PCB-064/072)  
 2,3,4'-TrCB (PCB-022)  
 2,3,4'-TrCB (PCB-021)  
 2,3,4,4',5-PeCB (PCB-114)  
 2,3,4,4',5,6-HxCB (PCB-166)  
 2,3,4,4'-TeCB (PCB-060)  
 2,3,4,5'-TeCB (PCB-061)  
 2,3,4,5,6/2,3',4',5',6-PeCB (PCB-116/125)  
 2,3,4,6'-TeCB (PCB-062)  
 2,3,5'-TrCB (PCB-023)  
 2,3,5,6/2,4,4',6'-TeCB (PCB-065/075)  
 2,3,6'-TrCB (PCB-024)  
 2,4',5'-TrCB (PCB-031)  
 2,4',6'-TrCB (PCB-032)  
 2,4-DiCB (PCB-007)  
 2,4,4',5'-TeCB (PCB-074)  
 2,4,4'-TrCB (PCB-028)  
 2,4,5'-TrCB (PCB-029)  
 2,4,6'-TrCB (PCB-030)  
 2,5-DiCB (PCB-009)  
 2,6-DiCB (PCB-010)  
 3-MoCB (PCB-002)  
 3,3',4'-TrCB (PCB-035)  
 3,3',4,4',5-PeCB (PCB-126)  
 3,3',4,4',5,5'-HxCB (PCB-169)  
 3,3',4,4'-TeCB (PCB-077)  
 3,3',4,5'-TeCB (PCB-079)  
 3,3',4,5'-TeCB (PCB-078)

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3,3',5-TrCB (PCB-036)  
3,3',5,5'-TeCB (PCB-080)  
3,3'-DiCB (PCB-011)  
3,4',5-TrCB (PCB-039)  
3,4/3,4'-DiCB (PCB-012/013)  
3,4,4',5-TeCB (PCB-081)  
3,4,4'-TrCB (PCB-037)  
3,4,5-TrCB (PCB-038)  
3,5-DiCB (PCB-014)  
4-MoCB (PCB-003)  
4,4'-DiCB (PCB-015)  
Total Dichlorobiphenyls  
Total Heptachlorobiphenyls  
Total Hexachlorobiphenyls  
Total Monochlorobiphenyls  
Total Nonachlorobiphenyls  
Total Octachlorobiphenyls  
Total Pentachlorobiphenyls  
Total Tetrachlorobiphenyls  
Total Trichlorobiphenyls

### **Water (Organic)**

Polychlorinated Dibenzo(p)dioxins and Dibenzofurans (PCDD/PCDF) - Water (005)

SOP LAB01; modified from EPA 1613B

HRGC/HRMS-EXTRACTION

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-TCDD  
2,3,7,8-TCDF  
OCDD  
OCDF  
Total HpCDD  
Total HpCDF  
Total HxCDD  
Total HxCDF  
Total PeCDD  
Total PeCDF  
Total TCDD  
Total TCDF

† "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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**Water (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Water (002)

SOP LAB03; IN-HOUSE

HRGC/HRMS-EXTRACTION

Acenaphthene

Acenaphthylene

Anthracene

Benz(a)anthracene

Benzo(a)pyrene

Benzo(b+j)fluoranthene

Benzo(ghi)perylene

Benzo(k)fluoranthene

Chrysene

Dibenz(a,h)anthracene

Fluoranthene

Fluorene

Indeno(1,2,3-cd)pyrene

Naphthalene

Phenanthrene

Pyrene

**Water (Organic)**

Tributyltins - Water (008)

SOP LAB04; IN-HOUSE

HRGC/HRMS-EXTRACTION

Dibutyltin dichloride

Monobutyltin trichloride

Tributyltin Chloride

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