



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 2728

**Laboratory Name:** Caduceon Environmental Laboratories (Kingston)

**Parent Institution:** Caduceon Enterprises Inc.

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**Standard:** Conforms with requirements of ISO/IEC 17025:2017

**Clients Served:**

**Revised On:** December 11, 2020

**Valid To:** November 20, 2022

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### Scope of Accreditation

#### Oil (Organic)

Polychlorinated Biphenyls (PCB) - Oil (081)

PCB-002; modified from EPA 8082A

GC/ECD - EXTRACTION

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Total PCB

#### Solids (Inorganic)

Base Neutral Acid Extractables (BNA) - Solids (092)

NAB-W-001, TCLP\_SPLP-001; modified from EPA 1312 (PREPARATION) and EPA 8270D (ANALYSIS)

GC/MS - SPLP

2,3,4,6-Tetrachlorophenol

2,4-Dichlorophenol

2,4-Dinitrotoluene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

3-Methylphenol + 4-Methylphenol (m-Cresol + p-Cresol)

Benzo(a)pyrene

Hexachlorobenzene (HCB)

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Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)  
Hexachloroethane  
Nitrobenzene (NB)  
Pentachlorophenol  
Pyridine  
Total Cresols

**Solids (Inorganic)**

Conductivity - Solids (077)  
COND-003; modified from ON MECP E3138  
CONDUCTIVITY METER  
Conductivity

**Solids (Inorganic)**

Cyanide - Solids [Soil] (074)  
CN-001; modified from EPA 9012B  
COLORIMETRIC - WATER EXTRACTION  
Free Cyanide  
Total Cyanide

**Solids (Inorganic)**

Extractable Cyanide - Solids (061)  
CN-001, TCLP\_SPLP-001; modified from EPA 1311 (PREPARATION) and SM 4500-CN- E (ANALYSIS)  
COLORIMETRIC - TCLP  
Cyanide (WAD)

**Solids (Inorganic)**

Extractable Cyanide - Solids (090)  
CN-001, TCLP\_SPLP-001; modified from EPA 1312 (PREPARATION) and SM 4500 CN- E (ANALYSIS)  
AUTOMATED COLORIMETRIC - SPLP  
Cyanide (WAD)

**Solids (Inorganic)**

Extractable Fluoride - Solids (062)  
F-001, TCLP\_SPLP-001; modified from EPA 1311 (PREPARATION) and SM 4500-F- D (ANALYSIS)  
COLORIMETRIC - TCLP  
Fluoride

**Solids (Inorganic)**

Extractable Fluoride - Solids (091)  
F-001, TCLP\_SPLP-001; modified from EPA 1312 (PREPARATION) and SM 4500-F- D (ANALYSIS)  
AUTOMATED COLORIMETRIC - SPLP  
Fluoride

**Solids (Inorganic)**

Oil and Grease - Solids [Soil] (049)  
O&G-001; modified from SM 5520 B and SM 5520 F  
GRAVIMETRIC  
Animal/Vegetable Oil and Grease  
Mineral Oil and Grease  
Total Oil and Grease

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**Solids (Inorganic)**

pH - Solids [Soil] (056)  
PH-001, PH-003; modified from ON MECP E3137  
pH METER  
pH

**Solids (Inorganic)**

Total Ammonia - Solids [Biosolid, Soil] (083)  
NH3-001; modified from ON MECP E3116  
AUTOMATED COLORIMETRIC  
Total Ammonia

**Solids (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Solids [Biosolid, Soil] (078)  
TPTKN-001; modified from ON MECP E3116  
AUTOMATED COLORIMETRIC - DIGESTION  
Total Kjeldahl Nitrogen (TKN)

**Solids (Inorganic)**

Total Phosphorus - Solids [Biosolid, Soil] (079)  
TPTKN-001; modified from ON MECP E3116  
AUTOMATED COLORIMETRIC - DIGESTION  
Total Phosphorus

**Solids (Organic)**

Base Neutral Acid Extractables (BNA) - Solids (060)  
NAB-W-001, TCLP\_SPLP-001; modified from EPA 1311 (PREPARATION) and EPA 8270D (ANALYSIS)  
GC/MS - TCLP  
2,3,4,6-Tetrachlorophenol  
2,4-Dichlorophenol  
2,4-Dinitrotoluene  
2,4,5-Trichlorophenol  
2,4,6-Trichlorophenol  
3-Methylphenol + 4-Methylphenol (m-Cresol + p-Cresol)  
Benzo(a)pyrene  
Hexachlorobenzene (HCB)  
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)  
Hexachloroethane  
Nitrobenzene (NB)  
Pentachlorophenol  
Pyridine  
Total Cresols

**Solids (Organic)**

Base Neutral Acid Extractables (BNA) - Solids [Soil] (048)  
NAB-S-001; modified from EPA 525.2 and EPA 8270D  
GC/MS - EXTRACTION  
1-Methylnaphthalene  
1-Methylnaphthalene + 2-Methylnaphthalene (calculation)

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1,2,4-Trichlorobenzene  
2-Chlorophenol  
2-Methylnaphthalene  
2,4+2,6-Dinitrotoluene (calculation)  
2,4-Dichlorophenol  
2,4-Dichlorophenoxyacetic acid (2,4-D)  
2,4-Dimethylphenol  
2,4-Dinitrophenol  
2,4-Dinitrotoluene  
2,4,5-Trichlorophenol  
2,4,5,6-Tetrachlorophenol  
2,4,6-Trichlorophenol  
2,6-Dinitrotoluene (2,6-DNT)  
3,3'-Dichlorobenzidine  
4-Chloroaniline (p-Chloroaniline)  
Acenaphthene  
Acenaphthylene  
Alachlor  
Anthracene  
Atrazine  
Azinphos-methyl (Guthion)  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(g,h,i)perylene  
Benzo(k)fluoranthene  
Biphenyl (1,1-Biphenyl)  
Bis(2-chloroethyl)ether  
Bis(2-chloroisopropyl)ether  
Bis(2-ethylhexyl) phthalate (Diethylhexyl phthalate)  
Bromoxynil  
Carbaryl  
Carbofuran  
Chlorpyrifos ethyl  
Chrysene  
Cyanazine (Bladex)  
Desethyl atrazine  
Di-n-butyl phthalate  
Diazinon  
Dibenzo(a,h)anthracene  
Dicamba

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Diclofop-methyl (as free acid)  
Diethyl phthalate  
Dimethoate  
Dimethyl phthalate  
Dinoseb  
Diuron (DCPMU)  
Fluoranthene  
Fluorene  
Hexachloroethane  
Indeno(1,2,3 - cd)pyrene  
Malathion  
Metolachlor  
Metribuzin  
Naphthalene  
Parathion (Ethyl parathion, Parathion (ethyl))  
Pentachlorophenol  
Phenanthrene  
Phenol  
Phorate  
Picloram  
Prometryne  
Pyrene  
Simazine  
Terbufos  
Total PAHs (calculation)  
Triallate  
Trifluralin

### **Solids (Organic)**

Chlorinated Pesticides - Solids [Soil] (076)  
PESTCL-002; modified from EPA 8081B and EPA 8082A

GC/ECD - EXTRACTION

2,4'-DDD (o,p'-DDD)

2,4'-DDE (o,p'-DDE)

2,4'-DDT (o,p'-DDT)

4,4'-DDD (p,p'-DDD)

4,4'-DDE (p,p'-DDE)

4,4'-DDT (p,p'-DDT)

Aldrin

Aldrin + Dieldrin (calculation)

alpha-Chlordane (a-Chlordane)

alpha-Hexacyclohexane (alpha-HCH, a-HCH, a-BHC, alpha-BHC)

beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-HCH, beta-BHC)

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Dieldrin  
Endosulfan I (Endosulphan I, a-Endosulfan)  
Endosulfan I (Endosulphan I, a-Endosulfan) + Endosulfan II (Endosulphan II, b-Endosulfan) (calculation)  
Endosulfan II (b-Endosulfan)  
Endosulfan sulfate (Endosulphan sulphate)  
Endrin  
Heptachlor  
Heptachlor epoxide  
Hexachlorobenzene (HCB)  
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)  
Hexachloroethane  
Lindane (gamma-Hexachlorocyclohexane, g-HCH, g-BHC, gamma-HCH, gamma-BHC)  
Methoxychlor  
Mirex  
Oxychlorane  
Total DDD (calculation)  
Total DDE (calculation)  
Total DDT (calculation)  
Total DDT + metabolites (calculation)  
trans-Chlordane (gamma-Chlordane)

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (046)  
PHC-S-001; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and ON MECP E3398  
GC/FID - EXTRACTION  
Diesel Range Organics (DRO): C10-C24  
F2: C10-C16  
F3: C16-C34  
F4: C34-C50  
Total Petroleum Hydrocarbons (TPH): C10-C30  
Total Petroleum Hydrocarbons (TPH): C24-C50

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (058)  
PHC-S-001; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GRAVIMETRIC  
F4: Gravimetric

**Solids (Organic)**

Polychlorinated Biphenyls (PCB) - Solids [Soil] (080)  
PCB-003; modified from EPA 8082A  
GC/ECD - EXTRACTION  
Aroclor 1242  
Aroclor 1248  
Aroclor 1254  
Aroclor 1260

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Total PCB	
<b>Water (Inorganic)</b>	OSDWA †
Ammonia + Ammonium - Water [Liquid Biosolid, Wastewater] (025)	
NH3-001; modified from SM 4500-NH3 H	
AUTOMATED COLORIMETRIC	
Ammonia	
Unionized Ammonia (calculation)	
<b>Water (Inorganic)</b>	OSDWA †
Biochemical Oxygen Demand (BOD) - Water (054)	
BOD-001; modified from SM 5210 B	
DISSOLVED OXYGEN METER (DO)	
BOD (5 day)	
CBOD (5 day)	
<b>Water (Inorganic)</b>	OSDWA †
Chemical Oxygen Demand (COD) - Water (089)	
COD-001; SM 5220 D	
COLORIMETRIC	
COD	
<b>Water (Inorganic)</b>	OSDWA †
Conductivity - Water (010)	
COND-001; modified from SM 2510 B	
CONDUCTIVITY METER	
Conductivity (25°C)	
<b>Water (Inorganic)</b>	OSDWA †
Cyanide - Water (006)	
CN-001; modified from SM 4500-CN- E	
AUTOMATED COLORIMETRIC - DISTILLATION	
Cyanide (SAD)	
Free Cyanide	
<b>Water (Inorganic)</b>	OSDWA †
Oil and Grease - Water (047)	
O&G-001; modified from SM 5520 B and SM 5520 F	
GRAVIMETRIC	
Animal/Vegetable Oil and Grease	
Mineral Oil and Grease	
Total Oil and Grease	
<b>Water (Inorganic)</b>	OSDWA †
pH - Water (009)	
PH-001; modified from SM 4500-H+ B	
pH METER	
pH	

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<b>Water (Inorganic)</b> Phenols - Water (086) PHEN-01; modified from ON MECP E3179 AUTOMATED COLORIMETRIC Total Phenolics	OSDWA †
<b>Water (Inorganic)</b> Phosphate - Water (088) DRP-002; modified from EPA 365.2 and ON MECP E3364 AUTOMATED COLORIMETRIC Phosphate	OSDWA †
<b>Water (Inorganic)</b> Solids - Water (026) TS-001, TSS-001; modified from SM 2540 B and SM 2540 D and SM 2540 E GRAVIMETRIC Total Solids (TS) Total Suspended Solids Total Volatile Solids (TVS) Volatile Suspended Solids	OSDWA †
<b>Water (Inorganic)</b> Sulphide - Water (036) H2S-001; modified from SM 4500-S2- D COLORIMETRIC Sulphide	OSDWA †
<b>Water (Inorganic)</b> Tannin and Lignin - Water (085) TAN-001; SM 5550 AUTOMATED COLORIMETRIC Tannin and Lignin	OSDWA †
<b>Water (Inorganic)</b> Total Kjeldahl Nitrogen (TKN) - Water [Liquid Biosolid, Wastewater] (016) TPTKN-001; modified from ON MECP E3199A.1 AUTOMATED COLORIMETRIC - DIGESTION Organic Nitrogen Total Kjeldahl Nitrogen	OSDWA †
<b>Water (Inorganic)</b> Total Phosphorus - Water [Liquid Biosolid, Wastewater] (042) TPTKN-001; modified from ON MECP E3199A.1 AUTOMATED COLORIMETRIC - DIGESTION Total Phosphorus	OSDWA †
<b>Water (Microbiology)</b> Coliforms - Water (035) ECTC-001; modified from ON MECP E3407 MEMBRANE FILTRATION (DC) Background Counts Escherichia coli	OSDWA †

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Total Coliforms	
<b>Water (Microbiology)</b> Escherichia coli (E. coli) - Water (002) EC-001; modified from SM 9222 D MEMBRANE FILTRATION (M-TEC WITH X-GLUC) Escherichia coli	OSDWA †
<b>Water (Microbiology)</b> Fecal (Thermotolerant) Coliforms - Water (044) FC-001; modified from SM 9222 D MEMBRANE FILTRATION (M-TEC) Fecal (Thermotolerant) Coliforms	OSDWA †
<b>Water (Microbiology)</b> Fecal Streptococci - Water (003) FS-001; modified from SM 9230 C MEMBRANE FILTRATION Fecal Streptococci	OSDWA †
<b>Water (Microbiology)</b> Heterotrophic Plate Count (HPC) - Water (001) HPC-001; modified from SM 9215 D MEMBRANE FILTRATION Heterotrophic Plate Count (HPC)	OSDWA †
<b>Water (Microbiology)</b> Total Coliforms - Water (043) TC 001; modified from SM 9222 B MEMBRANE FILTRATION (M-ENDO) Background Counts Total Coliforms	OSDWA †
<b>Water (Organic)</b> 2-methyl-4-chlorophenoxyacetic acid (MCPA) - Water (084) HERB-W-001; modified from EPA 8151A GC/MS MCPA (2-Methyl-4-chlorophenoxyacetic acid)	OSDWA †
<b>Water (Organic)</b> Base Neutral Acid Extractables (BNA) - Water (030) NAB-W-001; modified from EPA 8270D GC/MS 1-Methylnaphthalene 1-Methylnaphthalene + 2-Methylnaphthalene (calculation) 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chloronaphthalene 2-Chlorophenol	OSDWA †

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2-Methylnaphthalene  
2-Methylphenol (o-Cresol)  
2-Nitrophenol  
2,3,4,6-tetrachlorophenol  
2,4+2,6-Dinitrotoluene (calculation)  
2,4-dichlorophenol  
2,4-dichlorophenoxyacetic acid  
2,4-Dimethylphenol  
2,4-Dinitrophenol  
2,4-Dinitrotoluene  
2,4,5-Trichlorophenol  
2,4,6-trichlorophenol  
2,6-Dinitrotoluene (2,6-DNT)  
3,3-Dichlorobenzidine  
4-Chloro-3-methylphenol  
4-Chloroaniline (p-Chloroaniline)  
4-Chlorophenyl phenyl ether  
4-Methylphenol (p-Cresol)  
4-Nitrophenol  
4,6-Dinitro-2-methylphenol  
Acenaphthene  
Acenaphthylene  
Alachlor  
Anthracene  
Atrazine  
Azinphos-methyl  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(g,h,i)perylene  
Benzo(k)fluoranthene  
Biphenyl (1,1-Biphenyl)  
Bis(2-chloroethoxy)methane  
Bis(2-chloroethyl)ether  
Bis(2-chloroisopropyl)ether  
Bis(2-ethylhexyl) phthalate (Diethylhexyl phthalate)  
Bromoxynil  
Butyl benzyl phthalate  
Carbaryl  
Carbofuran  
Chlorpyrifos ethyl

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Chrysene  
Cyanazine  
Desethyl atrazine  
Di-n-butyl phthalate  
Di-n-octyl phthalate  
Diazinon  
Dibenzo(a,h)anthracene  
Dicamba  
Diclofop-methyl (as free acid)  
Diethyl phthalate  
Dimethoate  
Dimethyl phthalate  
Dinoseb  
Diuron  
Fluoranthene  
Fluorene  
Hexachlorobenzene (HCB)  
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)  
Hexachlorocyclopentadiene  
Hexachloroethane  
Indeno(1,2,3 - cd)pyrene  
Isophorone  
Malathion  
Metolachlor  
Metribuzin  
N-Nitrosodi-n-propylamine  
N-Nitrosodiphenylamine  
Naphthalene  
Nitrobenzene (NB)  
Parathion (ethyl)  
PBDE 3 (4-Bromophenyl phenyl ether)  
Pentachlorophenol  
Phenanthrene  
Phenol  
Phorate  
Picloram  
Prometryne  
Pyrene  
Simazine  
Terbufos  
Total PAHs (calculation)

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Triallate	
Trifluralin	
<b>Water (Organic)</b>	OSDWA †
Diquat and Paraquat - Water (028)	
HPLCDIQ-001; modified from EPA 549.2	
HPLC	
Diquat	
Paraquat	
<b>Water (Organic)</b>	OSDWA †
Glycols - Water (087)	
GLYCOL-01; modified from EPA 8015C	
GC/FID	
Diethylene glycol	
Ethylene glycol	
Propylene glycol	
<b>Water (Organic)</b>	OSDWA †
Glyphosate - Water (031)	
GLYPH-002; modified from EPA 547	
HPLC	
Glyphosate	
<b>Water (Organic)</b>	OSDWA †
Pesticides and Polychlorinated Biphenyls (PCB) - Water (027)	
LLEXT, PCB-001, PESTCL-001; modified from EPA 8081 and EPA 8082A	
GC/ECD - EXTRACTION	
2,4'-DDD (o,p'-DDD)	
2,4'-DDE (o,p'-DDE)	
4,4'-DDD (p,p'-DDD)	
4,4'-DDE (p,p'-DDE)	
A -BHC	
a - Chlordane	
Aldrin	
Aldrin + Dieldrin (calculation)	
beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-HCH, beta-BHC)	
delta-Hexachlorocyclohexane (d-HCH, d-BHC, delta-HCH, delta-BHC)	
Dieldrin	
Endosulfan I	
Endosulfan I (Endosulphan I, a-Endosulfan) + Endosulfan II (Endosulphan II, b-Endosulfan) (calculation)	
Endosulfan II	
Endosulfan sulfate (Endosulphan sulphate)	
Endrin	
Endrin aldehyde	
g - Chlordane	
Heptachlor	

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Heptachlor epoxide  
 Hexachlorobenzene (HCB)  
 Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)  
 Hexachlorocyclopentadiene  
 Hexachloroethane  
 Lindane (gamma-BHC)  
 Mirex  
 o,p' - DDT  
 Oxychlorane  
 p,p' - DDT  
 p,p' Methoxychlor  
 Total DDD (calculation)  
 Total DDE (calculation)  
 Total DDT (calculation)  
 Total DDT + metabolites (calculation)

**Water (Organic)**

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (050)  
 PHC-W-001; modified from ON MECP E3398 and ON MECP E3421  
 GC/FID - EXTRACTION  
 Diesel Range Organics (DRO): C10-C24  
 F2: C10-C16  
 F3: C16-C34  
 F4: C34-C50  
 Total Petroleum Hydrocarbons (TPH): C10-C30  
 Total Petroleum Hydrocarbons (TPH): C24-C50

**Water (Organic)**

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (059)  
 PHC-W-001; ON MECP E3421  
 GRAVIMETRIC  
 F4: Gravimetric

**Water (Organic)**

OSDWA †

Polychlorinated Biphenyls (PCB) - Water (082)  
 LLEXT, PCB-001, PESTCL-001; modified from EPA 8081 and EPA 8082A  
 GC/ECD - EXTRACTION  
 Aroclor 1242  
 Aroclor 1248  
 Aroclor 1254  
 Aroclor 1260  
 Total PCBs (Total Polychlorinated Biphenyls)

† "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).

The list of tests and measurement capabilities for which a laboratory is accredited can change at any time due to circumstances such as scope extensions, voluntary withdrawal of tests by the laboratory and suspension. Scopes are published by the CALA via the Internet at [http://www.cala.ca/cala\\_directories.html](http://www.cala.ca/cala_directories.html)