



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 2694  
**Laboratory Name:** CARO Analytical Services- Richmond Laboratory  
**Parent Institution:**  
**Address:** #110- 4011 Viking Way Richmond BC V6V 2K9  
**Contact:** Ms. Kathleen Fyffe  
**Phone:** (888) 311-8846  
**Fax:** (888) 765-3893  
**Email:** kfyffe@caro.ca; cwaldal@caro.ca

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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** September 27, 2018  
**Valid To:** August 9, 2020

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### Scope of Accreditation

#### Air (Organic)

Volatile Organic Compounds (VOC) - Air [TD Tube] (034)  
CR-TM-056; BC MOE LABORATORY MANUAL and EPA TO-17  
GC/MS - THERMAL DESORPTION

- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,1,1-Trichloroethane
- 1,1,1,2-Tetrachloroethane
- 1,1,2-Trichloro-1,2,2-Trifluoroethane (CFC113)
- 1,1,2-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,2-Dibromo-3-chloropropane (DBCP)
- 1,2-Dibromoethane
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,2,3-Trichloropropane
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,3-Butadiene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,4-Dichlorobenzene
- 2-Butanone (Methyl ethyl ketone, MEK)
- 2-Chlorophenol
- 2-Chlorotoluene

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4-Methyl-2-pentanone  
Acetone  
Acrylonitrile  
Allyl chloride  
Benzene  
Bromobenzene  
Bromodichloromethane  
Bromoform  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
cis-1,2-dichloroethene  
cis-1,3-Dichloropropene  
Dibromochloromethane  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane (Methylene Chloride)  
Ethyl acetate  
Ethyl ether  
Ethyl methacrylate  
Ethylbenzene  
Hexachlorobutadiene  
Hexachloroethane  
Isopropanol  
Isopropylbenzene (Cumene)  
m,p-Xylene  
Methacrylonitrile  
Methyl acrylate  
Methyl methacrylate  
Methyl t-butyl ether (MTBE)  
Methylcyclohexane  
n-Decane  
n-Hexane  
Naphthalene  
Nitrobenzene  
o-Xylene  
Styrene  
Tetrachloroethene  
Tetrahydrofuran  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethene  
Trichlorofluoromethane  
Vinyl chloride  
Volatile Hydrocarbons (VH): C6-C13

## **Food**

NSAIDS, Steroids, Hormones and - Food [Animal Tissue, Egg] (110)  
CR-TM-127; CVDR-M-3034  
LC-MS/MS  
17a-Trenbolone

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17b-Trenbolone  
19-Nortestosterone  
20-Dihydroprednisolone  
20-Dihydroprednisone  
Acepromazine  
Altrenogest  
Azaperol  
Azaperone  
Beclomethasone  
Betamethasone  
Boldenone  
Butorphanol  
Carazolol  
Chlorpromazine  
Detomidine  
Dexamethasone  
Dianabol  
Diclofenac  
Epi-testosterone  
Epi-testosterone  
Etodolac  
Flumethasone  
Flunixin  
Haloperidol  
Ketoprofen  
Mefenamic acid  
Meloxicam  
Methylprednisolone  
Naproxen  
Niflumic Acid  
Oxyphenbutazone  
Phenylbutazone  
Prednisolone  
Prednisone  
Progesterone  
Propionylpromazine  
Testosterone  
Tolfenamic acid  
Xylazine

**Food (Inorganic)**

Metals - Food [Fruit, Honey, Processed Food, Vegetables] (097)  
CR-TM-088 (ANALYSIS), CR-TM-112 (PREP); EPA 200.3 (PREPARATION) and EPA 6020 (ANALYSIS)  
ICP/MS  
Aluminum  
Antimony  
Arsenic  
Beryllium  
Boron  
Cadmium  
Chromium  
Copper  
Iron  
Lead

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Magnesium  
Manganese  
Mercury  
Molybdenum  
Nickel  
Selenium  
Tin  
Titanium  
Zinc

**Food (Organic)**

4-Methylimidazole - Beverages (130)  
CR-TM-146; modified from CFIA LCAQ-117-04  
LC/MS/MS  
4-Methylimidazole

**Food (Organic)**

Aflatoxins - Cereals (132)  
CR-TM-151; CFIA BFCL-002  
LC/MS/MS  
Aflatoxin B1  
Aflatoxin B2  
Aflatoxin G1  
Aflatoxin G2

**Food (Organic)**

Alar - Food [Fruit, Honey, Processed Food, Vegetables] (077)  
CR-TM-092; PMRA: P-RE-057-97(1) - AMO  
GC/MS  
Alar (Daminozide)

**Food (Organic)**

Aminoglycosides - Food [Animal Derived Food] (088)  
CR-TM-103; CFIA CALGARY ACC-078-V1.1  
LC/MS/MS  
Amikacin  
Apramycin  
Dihydrostreptomycin  
Gentamycin  
Hygromycin B  
Kanamycin A  
Kanamycin B  
Neomycin  
Spectinomycin  
Streptomycin  
Tobramycin

**Food (Organic)**

Amitraz - Food [Fruit, Honey, Processed Food, Vegetables] (078)  
CR-TM-093; modified from CFIA CALGARY CSP-006-V1.0  
LC/MS/MS  
Amitraz (2,4 Dimethylaniline)

**Food (Organic)**

Antibiotics - Food [Animal Derived Food] (103)  
CR-TM-106; CENTER FOR VETERINARY MEDICINE, US FDA, VOLUME 56: J. ARGIC. FOOD CHEM 1553  
-1559, 2008  
LC-MS/MS  
Chloramphenicol

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Chlortetracycline  
Ciprofloxacin  
Danofloxacin  
Desmycosin  
Difloxacin  
Doxycycline  
Enrofloxacin  
Erythromycin  
fumagillin  
Lincomycin  
Monensin  
Oxytetracycline (OTC)  
Sarafloxacin  
Streptomycin  
Sulfathiazole  
Tetracycline  
Tylosin

**Food (Organic)**

Bacitracin - Food [Egg] (128)  
CR-TM-143; modified from CFIA BAC-SP01  
LC-MS/MS  
Bacitracin

**Food (Organic)**

Benzimidazoles - Food [Animal Tissue, Egg] (113)  
CR-TM-130; modified from FSIS BNZ  
LC-MS/MS  
5-Hydroxy-thiabendazole  
Albendazole  
Albendazole sulfoxide  
Albendazole sulphone  
Albendazole-2-aminosulphone  
Cambendazole  
Carbendazim  
Fenbendazole  
Fenbendazole sulfone (Meat)  
Flubendazole  
Levamisole  
Mebendazole  
Oxfendazole  
Oxibendazole  
Thiabendazole

**Food (Organic)**

Carbamates - Food [Egg, Mate] (129)  
CR-TM-144; modified from CLG-PST5.07  
LC-MS/MS  
3-Hydroxy Carbofuran  
Aldicarb  
Aldicarb sulfone  
Aldicarb sulfoxide  
Bendiocarb  
Carbaryl  
Carbofuran  
Dioxacarb

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Isoprocarb  
Methiocarb  
Methiocarb sulfoxide  
Methomyl  
Oxamyl  
Promecarb  
Propoxur

**Food (Organic)**

Carbamates - Food [Fruit, Honey, Mate, Processed Food, Vegetables] (102)

CR-TM-098; CFIA CALGARY PMR-016-V1.0

LC-MS/MS  
3-Hydroxycarbofuran  
Aldicarb  
Aldicarb sulfone  
Aldicarb sulfoxide  
Aminocarb  
Bendiocarb  
Carbaryl  
Carbofuran  
Dioxacarb  
Methiocarb  
Methiocarb sulfoxide  
Methomyl  
Oxamyl  
Promecarb  
Propoxur

**Food (Organic)**

Coccidiostats - Food [Animal Tissue, Egg] (109)

CR-TM-126; CVDR-M-1002

LC-MS/MS  
Amprolium  
Buquinolate  
Clopidol  
Decoquate  
Diclazuril  
DNC (Nicarbazin Metabolite)  
Ethopabate  
Fenbendazole  
Halofuginone  
Lasalocid  
Maduramicin  
Monensin  
Narasin  
Ractopamine  
Robenidine  
Salinomycin  
Toltrazuril sulfone

**Food (Organic)**

Dipyron - Food (120)

CR-TM-137; CLG-DPN1.00

HPLC/UV - EXTRACTION  
4-(Methylamino)antipyrine  
4-Aminoantipyrine

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4-Formylaminoantipyrine  
Dipyron

**Food (Organic)**

Diquat and Paraquat - Food [Fruit, Processed Food, Vegetables] (099)  
CR-TM-115; EURL-SRM QUPPE - METHOD VERSION 9.1 May 2016  
LC-MS/MS  
Diquat  
Paraquat

**Food (Organic)**

EBDC - Food [Fruit, Honey, Processed Food, Vegetables] (079)  
CR-TM-094; modified from PMRA: P-RE-053-95-EBDC  
GC/MS  
total dithiocarbamates as Zineb

**Food (Organic)**

EBDC - Food [Fruit, Honey, Processed Food, Vegetables] (080)  
CR-TM-095; CFIA CALGARY SPR-002 V2.6  
HPLC  
Ethylenediamine

**Food (Organic)**

Endectocides - Food [Egg] (114)  
CR-TM-131; CFIA SOM-DAR-CHE-030-03  
LC-MS/MS  
Abamectin  
Doramectin  
Emamectin  
Eprinomectin  
Moxidectin

**Food (Organic)**

Ethylene thiourea - Food [Fruit, Honey, Processed Food, Vegetables] (081)  
CR-TM-096; EU REFERENCE LABORATORY OF PESTICIDES - EURL-SRM PESTICIDES IN FOODS OF  
PLANT ORIGIN (VERSION 9.1 MAY 2016)  
LC/MS/MS  
Ethylene thiourea

**Food (Organic)**

Fluoroquinolones - Food [Honey] (086)  
CR-TM-101; CFIA CALGARY ACC-080-V1.0  
LC/MS/MS  
Ciprofloxacin  
Danofloxacin  
Difloxacin  
Enoxacin  
Enrofloxacin  
Flumequine  
Marbofloxacin  
Nalidixic acid  
Norfloxacin  
Ofloxacin  
Orbifloxacin  
Oxolinic acid  
Pipemidic acid  
Sarafloxacin  
Sparfloxacin

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**Food (Organic)**

Fumagillin - Food [Honey] (087)  
CR-TM-102; J. OF CHROMATOGRAPHY A, 1190 (2008) 224-231  
LC/MS/MS  
fumagillin

**Food (Organic)**

Furans - Processed Foods (133)  
CR-TM-145; CONTAMINANTS, VOL. 27,. NO.6, JUNE 2010 and FOOD ADDITIVE  
GC/MS  
2-methyl furan  
3-methyl furan  
Furan

**Food (Organic)**

Gestagens - Food (119)  
CR-TM-136; modified from CVDR-M-3016  
LC-MS/MS  
Chlormadinone acetate  
Megestrol acetate  
Melengestrol acetate

**Food (Organic)**

Glyphosate - Food [Fruit, Processed Food, Vegetables] (084)  
CR-TM-099; EU REFERENCE LABORATORY FOR PESTICIDES - EURL-SRM PESTICIDES IN FOODS OF  
PLANT ORIGIN (VERSION 9.1 May 2016)  
LC/MS/MS  
AMPA  
Glufosinate  
Glyphosate

**Food (Organic)**

Halofuginone - Food [Animal Tissue, Egg] (117)  
CR-TM-134; CVDR-M-3034  
LC-MS/MS  
Halofuginone

**Food (Organic)**

HT-2/T-2 - Cereals (134)  
CR-TM-147; CFIA BFCL-055  
LC/MS/MS  
HT-2  
T-2

**Food (Organic)**

Ionophores - Food [Animal Derived Food] (089)  
CR-TM-104; modified from CFIA IONTMS-SP01  
LC/MS/MS  
Lasalocid  
Maduramycin  
Monensin  
Narasin  
Salinomycin

**Food (Organic)**

Macrolides - Food [Animal Derived Food] (090)  
CR-TM-105; CFIA CALGARY ACC-066-V3.0  
LC/MS/MS  
Clindamycin

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Desmycosin (tylosin B)  
Erythromycin  
Gamithromycin  
Josamycin  
Lincomycin  
Neospiramycin  
Oleandomycin  
Pirlimycin  
Spiramycin  
Tildipirosin  
Tilmicosin  
Tulathromycin  
Tylosin  
Tyvalosin

**Food (Organic)**

Morantel and Pyrantel - Food [Animal Tissue, Egg] (118)  
CR-TM-135; FSIS MPT  
GC/MS  
N-methyl-1,3 propane diamine

**Food (Organic)**

Nitrofurans - Food [Animal Derived Food] (092)  
CR-TM-107; CFIA CALGARY ACC-070-V1.4  
LC/MS/MS  
AHD  
AMOZ  
AOZ  
SEM

**Food (Organic)**

Nitroimidazoles - Food [Animal Derived Food] (098)  
CR-TM-114; J. OF AOAC INTERNATIONAL VOL90 ZHOU ET AL NO.3 PG872-878  
LC-MS/MS  
Dimetridazole  
Dimetridazole met.  
Ipronidazole  
Ipronidazole metab.  
Metronidazole  
Metronidazole met.  
Ronidazole  
Tinidazole

**Food (Organic)**

Penicillin Residues - Food [Animal Derived Food] (093)  
CR-TM-108; CFIA CALGARY ACC-063-V1.0  
LC/MS/MS  
Amoxicillin  
Ampicillin  
Cloxacillin  
Dicloxacillin  
Nafcillin  
Oxacillin  
Penicillin G  
Penicillin V

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**Food (Organic)**

Pesticides - Food (126)

CR-TM-142; modified from CLG-PST5.07

LC-MS/MS

3-Hydroxycarbofuran

Acephate

Acetamiprid

Benoxacor

Boscalid

Carbaryl

Carbofuran

Carfentrazone-ethyl

Clofentezine

Clothianidin

Difenoconazole

Diflubenzuron

Diuron

Fenoxaprop-ethyl

Fluridone

Imazalil

Imidacloprid

Indoxacarb

Methomyl

Methoxyfenozide

Pyraclostrobin

Pyriproxyfen

Tebufenozide

Thiabendazole

Thiamethoxam

**Food (Organic)**

Pesticides - Food (127)

CR-TM-142; modified from CLG-PST5.07

GC/MS/MS

Alachlor

Aldrin

Atrazine

Azoxystrobin

Bifenthrin

Buprofezin

Carbaryl

Carbofuran

Carboxin

Chloroneb

Chlorpropham

Chlorpyrifos

Chlorpyrifos methyl

cis-Chlordane

cis-Permethrin

Coumaphos O

Coumaphos S

Cyfluthrin

Cypermethrin

Cypermethrin

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DDD-op  
DDD-pp  
DDE-op'  
DDE-pp'  
DDT-op DDT-pp  
Deltamethrin  
Deltamethrin  
Desethyl atrazine  
Dichlorvos (DDVP)  
Dieldrin  
Endosulfan I  
Endosulfan II  
Endosulfan Sulfate  
Ethofumesate  
Fenpropathrin  
Fipronil  
Fipronil desulfinyl  
Fipronil sulfide  
Flucythrinate  
Fluroxypyr-1-Methylheptyl-Ester  
Fluvalinate  
Heptachlor  
Hexazinone  
Lambda-Cyhalothrin  
Linuron  
Malathion  
Metalaxyl  
Metolachlor  
Metribuzin  
Mirex  
Myclobutanil  
Nonachlor, trans-  
Norflurazon  
Oxychlordane  
Permethrin (cis & trans)  
Piperonyl butoxide  
Profenofos  
Pronamide  
Propachlor  
Propanil  
Propetamphos  
Propiconazole  
Pyridaben  
Resmethrin (cis & trans)  
Simazine  
Tau-Fluvalinate  
Tebufenozide  
Tefluthrin  
Thiobencarb  
trans-Chlordane  
trans-Permethrin  
Trifloxystrobin

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**Food (Organic)**

Pesticides - Food [Egg] (125)

CR-TM-142; modified from CLG-PST5.07

GC/MS/MS

Alachlor  
Alachlor metabolite(2-chloro-2',6'-diethylanilide)  
Aldrin  
alpha-BHC  
beta-BHC  
Chlorpyrifos  
cis-Chlordane  
cis-Permethrin  
Cyfluthrin  
Cyfluthrin (I,II,III,IV)  
Dicofol  
Dieldrin  
Endosulfan I  
Endosulfan II  
Endosulfan Sulfate  
Endrin  
Fenchlorophos (Ronne)  
Fenvalerate  
Flucythrinate  
Heptachlor  
Heptachlor Epoxide (endo)  
Hexachlorobenzene  
Lambda-Cyhalothrin  
Lindane (gamma-BHC)  
Methoxychlor  
Mirex  
Myclobutanil  
o,p'-DDD  
o,p'-DDT  
Oxychlordane  
p,p'-DDD  
p,p'-DDE  
p,p'-DDT  
Tau-Fluvalinate  
Tefluthrin  
trans-Chlordane  
trans-Permethrin

**Food (Organic)**

Pesticides - Food [Fruit, Honey, Processed Food, Vegetables] (082)

CR-TM-097; CFIA CALGARY PMR-001-V1.11 and CFIA CALGARY PMR-002-V1.1

GC/MS

2-Phenylphenol (ortho-phenylphenol)  
Acephate  
Acibenzolar-s-methyl  
Alachlor  
Aldrin  
Allethrin 1  
Allethrin 2  
Allidochlor

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alpha-BHC  
Ametryn  
Aramite 1  
Aramite 2  
Aspon  
Atrazine  
Azinphos-ethyl  
Azinphos-methyl  
Azoxystrobin  
Benalaxyl  
Benfluralin  
Benodanil  
Benzoylprop-ethyl  
beta-BHC  
Bifenox  
Bifenthrin  
Biphenyl  
Bromacil  
Bromophos  
Bromophos-ethyl  
Bromopropylate  
Bupirimate  
Buprofezin  
Butachlor  
Butralin  
Butylate  
Captafol (degradation)  
Captan (parent)  
Carbetamide  
Carbofenthion  
Carboxin  
Chlorbenside  
Chlorbromuron  
Chlorbufam  
Chlordimeform  
Chlorfenson  
Chlorfenvinphos (e + z)  
Chlorflurenol-methyl  
Chloridazon  
Chlormephos  
Chlorobenzilate  
Chloroneb  
Chloropropylate  
Chlorothalonil  
Chlorpropham  
Chlorpyrifos  
Chlorpyrifos methyl  
Chlorthiamid  
Chlorthiamid (parent)  
Chlorthion  
Chlorthiophos  
Chlozolate  
cis-Chlordane

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Clomazone  
Coumaphos  
Crotoxyphos  
Crufomate  
Cyanazine  
Cyanophos  
Cycloate  
Cyfluthrin I  
Cyfluthrin II  
Cyfluthrin III  
Cyfluthrin IV  
Cyhalothrin-lambda  
Cypermethrin I  
Cypermethrin II  
Cypermethrin III  
Cypermethrin IV  
Cyprazine  
Cyproconazole  
Cyprodinil  
Cyromazine  
Dacthal (chlorthal-dimethyl)  
delta-HCH (delta-lindane)  
delta-trans-allethrin (see Allethrin 1 and 2 above)  
Deltamethrin  
Demeton-O  
Demeton-S  
Demeton-S-methyl  
Desethyl atrazine  
Desmetryn  
Di-allate 1  
Di-allate 2  
Dialifos  
Diazinon  
Diazinon o analogue  
Dichlobenil (Casoron)  
Dichlofluanid  
Dichloran  
Dichlormid  
Dichlorvos  
Diclobutrazole  
Diclofenthion  
Diclofop-methyl  
Dicofol  
Dicrotophos  
Dieldrin  
Diethyl-ethyl  
Dimethachlor  
Dimethoate  
Dinitramine  
Dioxathion  
Diphenamid  
Diphenylamine  
Disulfoton

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Disulfoton sulfone  
Edifenphos  
Endosulfan I  
Endosulfan II  
Endosulfan Sulfate  
Endrin  
Eptam (EPN)  
Eptam (EPTC)  
Erbon  
Esfenvalerate  
Etaconazole 1  
Etaconazole 2  
Ethalfuralin  
Ethion  
Ethofumesate  
Ethoprophos  
Ethylan  
Etridiazole  
Etrimfos  
Fenamiphos  
Fenamiphos Sulfone  
Fenamiphos Sulfoxide  
Fenarimol  
Fenbuconazole  
Fenchlorophos (Ronne)  
Fenfuram  
Fenitrothion  
Fenpropathrin  
Fenson  
Fensulfothion  
Fenthion  
Fenvalerate I  
Fenvalerate II  
Flamprop-isopropyl  
Flamprop-methyl  
Fluchloralin  
Flucythrinate I  
Flucythrinate II  
Fludioxonil  
Flumetralin  
Fluorochloridone I  
Fluorochloridone II  
Fluorodifen  
Flusilazole  
Fluvalinate 1 (tau)  
Fluvalinate 2 (tau)  
Folpet  
Fonofos  
Heptachlor  
Heptachlor Epoxide (endo)  
Heptachlor epoxide - exo  
Heptanophos  
Hexachlorobenzene

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Hexaconazole  
Hexazinone  
Imazalil  
Iodofenphos  
Iprobenfos  
Iprodione I  
Iprodione II  
Isazophos  
Isofenphos  
Isopropalin  
Isoprothiolane  
Kresoxim-methyl  
Leptophos  
Lindane (gamma-BHC)  
Linuron  
Malaaxon  
Malathion  
Mecarbam  
Metalaxyl  
Metazachlor  
Methamidophos  
Methoprotryne  
Methoxychlor  
(Methyl PCP sulphide)  
Methyl Pentachlorophenyl sulphide  
Methyl-trithion  
Metobromuron  
Metolachlor  
Metribuzin  
Mevinphos-cis  
Mevinphos-trans  
Mexacarbate (parent)  
Mirex  
Monocrotophos  
Monolinuron  
Myclobutanil  
Naled  
Nitralin  
Nitrapyrin  
Nitrofen  
Nitrothal-isopropyl  
Norflurazon  
Nuaimol  
o,p'-DDD  
o,p'-DDE  
o,p'-DDT  
Octhilinone  
Omethoate  
Oxadiazon  
Oxadixyl  
Oxycarboxin  
Oxychlorane  
Oxyfluorfen

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p,p'-DDD  
p,p'-DDE  
p,p'-DDT  
Paraoxon  
Parathion  
Parathion-methyl  
Pebulate  
Penconazole  
Pendimethalin  
Pentachloroaniline  
Permethrin, cis-  
Permethrin, trans-  
Phenthoate  
Phorate  
Phorate sulfone  
Phosalone  
Phosmet  
Phosphamidon  
Piperonyl butoxide  
Pirimicarb  
Pirimiphos-ethyl  
Pirimiphos-methyl  
Prochloraz  
Procymidone  
Profenofos  
Profluralin  
Prometon  
Prometryne  
Pronamide  
Propachlor  
Propanil  
Propargite (1&2)  
Propazine  
Propetamphos  
Propham  
Propiconazole 1  
Propiconazole 2  
Prothiophos  
Pyracarbolid  
Pyrazophos  
Pyridaben  
Quinalphos  
Quinomethionate  
Quintozene  
Schradan  
Secbumeton  
Simazine  
Simetryn  
Sulfallate  
Sulfotep  
Sulprophos  
TCMTB  
Tebuconazole

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Tecnazene  
Terbacil  
Terbufos  
Terbumeton  
Terbutryn  
Terbutylazine  
Tetrachlorvinphos  
Tetradifon  
Tetraiodoethylene  
Tetramethrin I  
Tetramethrin II  
Tetrasul  
Thiobencarb  
Tolclofos-methyl  
Tolyfluanid  
trans-Chlordane  
Tri-allate  
Triadimefon  
Triadimenol 1 (Baytan)  
Triadimenol 2 (Baytan)  
Triazophos  
Tribufos  
Tricyclazole  
Trifloxystrobin  
Triflumizole  
Trifluralin  
Vernolate  
Vinclozolin

**Food (Organic)**

Pesticides - Food [Fruit, Honey, Processed Food, Vegetables] (083)

CR-TM-098; CFIA CALGARY PMR-016-V1.0

LC/MS/MS

3-Hydroxycarbofuran  
Abamectin B1a  
Acetamiprid  
Acetochlor  
Aclonifen  
Aldicarb  
Aldicarb sulfone  
Aldicarb sulfoxide  
Aminocarb  
Anilofos  
Azaconazole  
Bendiocarb  
Benomyl  
Benoxacor  
Bitertanol  
Boscalid  
Bromuconazole  
Bufencarb  
Butafenacil  
Butocarboxim  
Butocarboxim Sulfoxide

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Cadusafos  
Carbaryl  
Carbendazim  
Carbetamide  
Carbofuran  
Carfentrazone-ethyl  
Chlorantraniliprole  
Chlorbromuron  
Chloridazon  
Chlorimuron-ethyl  
Chloroxuron  
Chlortoluron  
Clodinafop-propargyl  
Cloquintocet-mexyl  
Clothianidin  
Cyanofenphos  
Cyazofamid  
Cycloxydim  
Cycluron  
Cyromazin  
Desmedipham  
Dialifos  
Diclocymet  
Diethofencarb  
Difenoconazole  
Dimethametryn  
Dimethomorph  
Dimetilan  
Dimoxystrobin  
Diniconazole  
Dioxacarb  
Dioxydemeton-s-methyl sulfone  
Dipropetryn  
Diuron  
Dodemorph  
Enamectin  
Epoxiconazole  
Ethiofencarb  
Ethiofencarb Sulfone  
Ethiofencarb Sulfoxide  
Ethiprole  
Ethirimol  
Ethoprop  
Etofenprox  
Etoxazole  
Fenamidone  
Fenazaquin  
Fenhexamid  
Fenoxanil  
Fenpropimorph  
Fenpyroximate  
Fentrazamide  
Fluazifop-butyl

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Flubendiamide  
Flucarbazone-sodium  
Fluoxastrobin  
Flutolanil  
Flutriafol  
Forchlorfenuron  
Formetanate  
Fosthiazate  
Fuberidazole  
Furathiocarb  
Griseofulvin  
Haloxyfop  
Imazamethabenz-methyl  
Imazethapyr  
Imidacloprid  
Indoxacarb  
Ipconazole  
Iprovalicarb  
Isocarbamide  
Isoprocarb  
Isoxadifen-ethyl  
Isoxathion  
Mandipropamid  
Mepanipyrim  
Mepanipyrim  
Mephosfolan  
Methabenzthiazuron  
Methidathion  
Methiocarb  
Methiocarb sulfone  
Methiocarb sulfoxide  
Methomyl  
Methoxyfenozide  
Metolcarb  
Metosulam  
Metoxuron  
Mexacarbate  
Molinate  
Monocrotophos  
Napropamide  
Naptalam  
Neburon  
Nitenpyram  
Ofurace  
Oxadixyl  
Oxamyl  
Oxamyl-Oxime  
Oxycarboxin  
Oxydemeton-methyl  
Paclobutrazol  
Pencycuron  
Penoxsulam  
Picolinafen

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Picoxystrobin  
Piperophos  
Pretilachlor  
Primisulfuron-methyl  
Prodiamine  
Promecarb  
Propamocarb  
Prophos  
Propoxur  
Pymetrozine  
Pyraclostrobin  
Pyraflufen-ethyl  
Pyrazon  
Pyridalyl  
Pyridaphention  
Pyridate  
Pyrifenox  
Pyrimethanil  
Pyriproxyfen  
Pyroquilon  
Pyroxsulam  
Quinoxifen  
Quizalofop  
Quizalofop-ethyl  
Schraden  
Simeconazole  
Spinosad  
Spinosyn A  
Spinosyn D  
Spirodiclofen  
Spiromesifen  
Spirotetramat  
Spiroxamine  
Sulfentrazone  
Tebufenozide  
Tebufenpyrad  
Tebupirimfos  
Tepraloxydim  
Tetraconazole  
Thiabendazole  
Thiacloprid  
Thiamethoxam  
Thiazopyr  
Thiodicarb  
Thiofanox  
Thiofanox Sulfone  
Thiofanox Sulfoxide  
Thiophanate-methyl  
Tolfenpyrad  
Tolyfluanid  
Tralkoxydim  
Trichlorfon  
Tricyclazole

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Trietazine  
Trifloxysulfuron  
Triforine  
Trimethacarb  
Zinophos  
Zoxamide

**Food (Organic)**

Phenicol Residues - Food [Honey] (094)  
CR-TM-109; CFIA CALGARY ACC-062-V2.3  
LC/MS/MS  
Chloramphenicol  
Florfenicol  
Thiamphenicol

**Food (Organic)**

Phenols - Food [Egg] (124)  
CR-TM-141; CVDR-PCP-SP08  
GC/MS  
2,3,4,5-Tetrachlorophenol  
2,3,4,6-Tetrachlorophenol  
2,3,5,6-Tetrachlorophenol  
Pentachlorophenol

**Food (Organic)**

Phenoxy Acid Herbicides - Food [Fruit, Processed Food, Vegetables] (085)  
CR-TM-100; CRL - ACIDIC PESTICIDES BY QUECHERS (2007)  
LC/MS/MS  
2,4-D  
MCPA

**Food (Organic)**

Phenylbutazone - Food [Animal Tissue, Egg] (115)  
CR-TM-132; CVDR-M-3002  
LC-MS/MS  
Phenylbutazone

**Food (Organic)**

Sulfonamide - Food [Animal Derived Food] (095)  
CR-TM-110; CFIA CALGARY ACC-056-V4.1  
LC/MS/MS  
Dapsone  
Sulfabenzamide  
Sulfacetamide  
Sulfachloropyridazine  
Sulfadiazine  
Sulfadimethoxine  
Sulfadoxine  
Sulfaethoxypyridazine  
Sulfaquanidine  
Sulfamerazine  
Sulfameter  
Sulfamethazine  
Sulfamethizole  
Sulfamethoxazole  
Sulfamethoxypyridazine  
Sulfamonomethoxine  
Sulfamoxole

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Sulfanilamide  
Sulfaphenazole  
Sulfapyridine  
Sulfaquinoxaline  
Sulfathiazole  
Sulfisomidine  
Sulfisoxazole  
Trimethoprim

**Food (Organic)**

Tetracyclines - Food [Animal Derived Food] (096)

CR-TM-111; CFIA CALGARY ACC-042-V2.0

LC/MS/MS

Chlortetracycline

Doxycycline

Epichlortetracycline

Epioxytetracycline

Epitetracycline

Oxytetracycline (OTC)

Tetracycline

**Food (Organic)**

Tiamulin - Food [Animal Tissue] (112)

CR-TM-129; CVDR-M-3031

LC-MS/MS

Tiamulin

**Food (Organic)**

Toltrazuril - Food [Animal Tissue, Egg] (116)

CR-TM-133; CVDR-M-3031

LC-MS/MS

Toltrazuril sulfone

**Food (Organic)**

Trenbolone - Food (121)

CR-TM-138; modified from CVDR-M-3017

LC-MS/MS

alpha-Trenbolone

beta-Trenbolone

**Food (Organic)**

Virginiamycin M1 - Food [Egg] (123)

CR-TM-140; modified from CVDR-M-VIRG-SP01

LC-MS/MS

Virginiamycin M1

**Food (Organic)**

ZON - Cereals (136)

CR-TM-148; CFIA BFCL-054

LC/MS/MS

alpha-Zearalenol

beta-Zearalenol

Zearalenone

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**Solids (Inorganic)**

Chloride - Solids [Saturated Paste] (063)

CR-TM-075 (EXTRACTION), CR-TM-006 (CI ANALYSIS); modified from SM 4500-CL- D (ANALYSIS) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1 (PREPARATION)  
AUTO TITRIMETRIC - EXTRACTION

Chloride

**Solids (Inorganic)**

Flashpoint - Solids [Ash, Soil] (066)

CR-TM-084; ASTM D93-12B  
PENSKY-MARTENS CLOSED CUP

Flashpoint

**Solids (Inorganic)**

Free Liquid - Solids [Soil] (075)

CR-TM-082; EPA 9095B  
PRESENCE/ABSENCE

Free Liquid

**Solids (Inorganic)**

Hexavalent Chromium - Solids [Soil] (046)

CR-TM-034; EPA 3060A (PREPARATION) and EPA 7196A (ANALYSIS)  
ALKALINE DIGESTION/COLORIMETRIC

Hexavalent chromium

**Solids (Inorganic)**

Hot Water Soluble Boron - Solids [Soil] (057)

CR-TM-076 (PREP), CR-TM-088 (ANALYSIS); SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 9.2 ,  
EPA 6020A (PREPARATION)  
ICP/MS - EXTRACTION

Boron (Hot Water Soluble)

**Solids (Inorganic)**

Metals - Solids [Saturated Paste] (065)

CR-TM-075, CR-TM-088; EPA 6020A (ANALYSIS) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER  
15.2.1 (PREPARATION)  
ICP/MS - EXTRACTION

Boron

Calcium

Magnesium

Potassium

Sodium

**Solids (Inorganic)**

Metals - Solids [Soil] (049)

CR-TM-057 (EXTRACTION), CR-TM-088 (ANALYSIS); EPA 1311 (PREPARATION) and EPA 6020A  
(ANALYSIS)

ICP/MS - TCLP

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

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Mercury  
Nickel  
Selenium  
Silver  
Thallium  
Uranium  
Vanadium  
Zinc  
Zirconium

**Solids (Inorganic)**

Particle Size Analysis (PSA) - Solids [Soil] (061)

CA-TM-005; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 55.3

HYDROMETER

% clay

% Sand

Silt

**Solids (Inorganic)**

Particle Size Analysis (PSA) - Solids [Soil] (062)

CR-TM-081; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 55.4

WET SIEVE

75um Sieve (No. 200)

**Solids (Inorganic)**

pH - Solids [Soil] (059)

CR-TM-018; SM 4500-H+ (ANALYSIS) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 16.2 (PREPARATION) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 16.3 (PREPARATION)

AUTO - pH METER

pH (1:2) Soil: CaCl<sub>2</sub>

pH (1:2) Soil: Water

**Solids (Inorganic)**

SALM Metals - Solids [Soil] (020)

CR-TM-088, CR-TM-119; BC MOE LABORATORY MANUAL, SALM V.2 (PREPARATION) and EPA 6020A (ANALYSIS)

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Mercury

Molybdenum

Nickel

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Phosphorus  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Tellurium  
Thallium  
Thorium  
Tin  
Titanium  
Tungsten  
Uranium  
Vanadium  
Zinc  
Zirconium

**Solids (Organic)**

Acid Herbicides - Solids [Soil] (053)  
CR-TM-074; modified from EPA 8151A  
GC/MS - EXTRACTION/DERIVATIZATION  
2,4-D  
2,4-DB  
2,4,5-T  
2,4,5-TP  
3,5-Dichlorobenzoic acid  
Dicamba  
Dichloroprop  
Dinoseb  
MCPA  
MCP  
Picloram

**Solids (Organic)**

BTEX - Solids [Soil] (068)  
CR-TM-086/CR-TM-031; EPA 1311 (PREPARATION) and EPA 5030B (ANALYSIS) and EPA 8260C (ANALYSIS)  
GC/MS - TCLP  
Benzene  
Ethylbenzene  
m,p-Xylene  
Naphthalene  
o-Xylene  
Toluene

**Solids (Organic)**

Extractable Petroleum Hydrocarbons (EPH) - Solids [Soil] (017)  
CR-TM-010; BC MOE LABORATORY MANUAL  
GC/FID - EXTRACTION  
EPH C10-C19  
EPH C10-C19 (sq)  
EPH C19-C32  
EPH C19-C32 (sq)

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**Solids (Organic)**

Glycols - Solids [Soil] (047)

CR-TM-054; modified from EPA 8015B

GC/FID - EXTRACTION

Diethylene glycol

Ethylene glycol

Methanol

Propylene glycol

Sulfolane

Triethylene glycol

**Solids (Organic)**

Organochlorine (OC) and Organonitrogen (ON) and Organophosphorus (OP) Pesticides and Herbicides - Solids [Soil] (050)

CR-TM-073; modified from EPA 3570 (PREPARATION) and EPA 8270D (ANALYSIS)

GC/MS - EXTRACTION

Alachlor

Aldrin

alpha-BHC

alpha-Chlordane

Atrazine

Azinphos-methyl

beta-BHC

Bromacil

Bromoxynil

Captan

Chlorothalonil

Chlorpyrifos

cis-Permethrin

Cyanazine

delta-BHC

Diazinon

Dichlorvos

Diclofop-methyl

Dieldrin

Dimethoate

Disulfoton

Diuron

Endosulfan I

Endosulfan II

Endosulfan Sulfate

Endrin

Endrin Aldehyde

Endrin Ketone

gamma-Chlordane

Heptachlor

Heptachlor epoxide

Lindane (gamma-BHC)

Linuron

Malathion

Methoxychlor

Methyl parathion

Metolachlor

Metribuzin

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p,p-DDD  
p,p-DDE  
p,p-DDT  
Parathion-ethyl  
Pentachloronitrobenzene  
Phorate  
Prometon  
Prometryne  
Propiconazole  
Ronnal  
Simazine  
Sulfotep  
Tebuthiuron  
Temephos  
Terbufos  
trans-Permethrin  
Triallate  
Trifluralin

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (032)  
CR-TM-010; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GC/FID - EXTRACTION  
F2: C10-C16  
F3: C16-C34  
F4: C34-C50

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (064)  
CR-TM-083; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GRAVIMETRIC  
F4: Gravimetric

**Solids (Organic)**

Phenols - Solids [Soil] (044)  
CR-TM-067; modified from EPA 3570 (PREPARATION) and EPA 8270D (ANALYSIS)  
GC/MS - EXTRACTION  
2-Chlorophenol  
2-Methyl-4,6-dinitrophenol  
2-Methylphenol (o-Cresol)  
2-Nitrophenol  
2,3-Dichlorophenol  
2,3,4-Trichlorophenol  
2,3,4,5-Tetrachlorophenol & 2,3,5,6-Tetrachlorophenol (14/2018))  
2,3,4,6-Tetrachlorophenol  
2,3,5-Trichlorophenol  
2,3,6-Trichlorophenol  
2,4-Dichlorophenol + 2,5-Dichlorophenol  
2,4-Dimethylphenol  
2,4-Dinitrophenol  
2,4,5-Trichlorophenol  
2,4,6-Trichlorophenol  
2,6-Dichlorophenol  
2,6-Dimethylphenol  
3-Chlorophenol & 4-Chlorophenol  
3-Methylphenol & 4-Methylphenol

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3,4-Dichlorophenol  
3,4-Dimethylphenol  
3,4,5-Trichlorophenol  
3,5-Dichlorophenol  
4-Chloro-3-methyl phenol  
4-Nitrophenol  
Hydroquinone  
Pentachlorophenol  
Phenol

**Solids (Organic)**

Polychlorinated Biphenyls (PCB) Aroclors - Solids [Soil] (038)  
CR-TM-066; modified from EPA 3570 (PREPARATION) and EPA 8082 (ANALYSIS)  
GC/ECD - EXTRACTION  
Aroclor 1016  
Aroclor 1221  
Aroclor 1232  
Aroclor 1242  
Aroclor 1248  
Aroclor 1254  
Aroclor 1260  
Aroclor 1262  
Aroclor 1268  
Total PCB

**Solids (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (015)  
CR-TM-015; modified from EPA 3570 (PREPARATION) and EPA 8270D (ANALYSIS)  
GC/MS - EXTRACTION  
1-Methylnaphthalene  
2-Chloronaphthalene  
2-Methylnaphthalene  
3-methyl cholanthrene  
7,12 - dimethylBenz(a)anthracene  
Acenaphthene  
Acenaphthylene  
Anthracene  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (g,h,i) perylene  
Benzo(i)fluoranthene  
Benzo (k) fluoranthene  
Chrysene  
Dibenzo (a,h) anthracene  
Fluoranthene  
Fluorene  
Indeno (1,2,3 - cd) pyrene  
Naphthalene  
Phenanthrene  
Pyrene  
Quinoline

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**Solids (Organic)**

Volatile Hydrocarbons (VH) - Solids [Soil] (026)  
CR-TM-036; BC MOE LABORATORY MANUAL  
GC/FID - PURGE AND TRAP EXTRACTION  
F1: C6-C10  
VH: C6-C10

**Solids (Organic)**

Volatile Hydrocarbons (VH) - Solids [Soil] (071)  
CR-TM-036; BC MOE LABORATORY MANUAL and CCME CWS PETROLEUM HYDROCARBONS IN SOIL -  
TIER 1 METHOD  
GC/FID - HEADSPACE  
F1: C6-C10  
VH: C6-C10

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Solids [Soil] (025)  
CR-TM-035; EPA 5030B (PREPARATION) and EPA 5035 (PREPARATION) and EPA 8260C (ANALYSIS)  
GC/MS - PURGE AND TRAP/EXTRACTION  
1,1-Dichloroethane  
1,1-dichloroethylene  
1,1-Dichloropropene  
1,1,1-Trichloroethane  
1,1,1,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,2-Dibromo-3-chloropropane (DBCP)  
1,2-dichlorobenzene  
1,2-dichloroethane  
1,2-Dichloropropane  
1,2,3-Trichlorobenzene  
1,2,3-Trichloropropane  
1,2,4-Trichlorobenzene  
1,2,4-Trimethylbenzene  
1,3-Butadiene  
1,3-Dichlorobenzene  
1,3-Dichloropropane  
1,3,5-Trimethylbenzene  
1,4-dichlorobenzene  
2-Chlorotoluene  
2-Hexanone (MBK)  
2,2-Dichloropropane  
4-Chlorotoluene  
Acetone (2-Propanone)  
Acrylonitrile  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane

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Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene  
Isopropylbenzene (Cumene)  
m/p-xylene  
Methyl ethyl ketone  
Methyl isobutyl ketone  
Methyl methacrylate  
Methyl t-butyl ether  
n-Butylbenzene  
n-Propylbenzene  
Naphthalene  
o-xylene  
p-Isopropyltoluene  
sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl chloride

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Solids [Soil] (069)  
CR-TM-035; EPA 5021A (PREPARATION) and EPA 8260C (ANALYSIS)  
GC/MS - HEADSPACE/EXTRACTION

1,1-Dichloroethane  
1,1-Dichloroethylene  
1,1-Dichloropropene  
1,1,1-Trichloroethane  
1,1,1,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,2-Dibromo-3-chloropropane (DBCP)  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloropropane  
1,2,3-Trichlorobenzene  
1,2,3-Trichloropropane  
1,2,4-Trichlorobenzene  
1,2,4-Trimethylbenzene  
1,3-Dichlorobenzene  
1,3-Dichloropropane

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1,3,5-Trimethylbenzene  
1,4-Dichlorobenzene  
2-Chlorotoluene  
2-Hexanone (MBK)  
2,2-Dichloropropane  
4-Chlorotoluene  
Acetone (2-Propanone)  
Acrylonitrile  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene  
Isopropylbenzene (Cumene)  
m/p-xylene  
Methyl ethyl ketone  
Methyl isobutyl ketone  
Methyl methacrylate  
Methyl t-butyl ether  
n-Butylbenzene  
n-Propylbenzene  
Naphthalene  
o-xylene  
p-Isopropyltoluene  
sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl chloride

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**Tissue (Inorganic)**

Metals - Tissue [Vegetation] (101)

CR-TM-113 (PREP)/CR-TM-088 (ANALYSIS); modified from EPA 200.3 and EPA 6020A

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silver

Sodium

Strontium

Thallium

Tin

Titanium

Uranium

Vanadium

Zinc

**Water (Inorganic)**

Biochemical Oxygen Demand (BOD) - Water (008)

CA-TM-003; SM 4500-O G and SM 5210 B

D.O. METER

BOD (5 day)

Carbonaceous Biochemical Oxygen Demand (CBOD)

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (013)

CA-TM-004; SM 5220 D

CLOSED REFLUX - COLORIMETRIC

COD

**Water (Inorganic)**

Chloride - Water (002)

CR-TM-006; modified from SM 4500-CL- D

AUTO TITRIMETRIC

Chloride

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**Water (Inorganic)**

Conductivity - Water (003)

CR-TM-008; SM 2510 B

CONDUCTIVITY METER

Conductivity (25°C)

**Water (Inorganic)**

Dissolved and Extractable Metals - Water (019)

CR-TM-025 (PREP), CR-TM-088 (ANALYSIS); SM 3030 B (PREPARATION) and SM 3030 C (PREPARATION)  
and SM 3125 B (ANALYSIS)

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Hardness (calculation)

Iron

Lead

Lithium

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silver

Sodium

Strontium

Tellurium

Tellurium

Thallium

Thorium

Thorium

Tin

Titanium

Uranium

Vanadium

Zinc

Zirconium

Zirconium

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**Water (Inorganic)**

Hexavalent Chromium - Water (045)  
CR-TM-033; SM 3500-CR B  
COLORIMETRIC  
Hexavalent Chromium

**Water (Inorganic)**

Mercury - Water (100)  
CR-TM-091; modified from EPA 245.7  
COLD VAPOUR ATOMIC FLUORESCENCE - DIGESTION  
Mercury

**Water (Inorganic)**

Nitrite - Water (107)  
CR-TM-121; SM 4500-NO2- B (2011)  
COLORIMETRIC  
Nitrite

**Water (Inorganic)**

Oil and Grease - Water (014)  
CR-TM-014; modified from EPA 1664  
GRAVIMETRIC - EXTRACTION  
Mineral Oil and Grease  
Total Oil and Grease

**Water (Inorganic)**

pH - Water (011)  
CR-TM-018; SM 4500-H+  
pH - METER  
pH

**Water (Inorganic)**

Solids - Water (007)  
CA-TM-006; modified from SM 2540 D  
GRAVIMETRIC  
Total Suspended Solids

**Water (Inorganic)**

Total Metals - Water (021)  
CR-TM-025 (PREP), CR-TM-088 (ANALYSIS); modified from SM 3030 E (PREPARATION) and SM 3125 B (ANALYSIS)  
ICP/MS - DIGESTION  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Hardness (calculation)  
Iron  
Lead  
Lithium

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Magnesium  
Manganese  
Mercury  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Water (Organic)**

Acid Herbicides - Water (041)  
CR-TM-069; modified from EPA 8151A  
GC/MS - EXTRACTION/DERIVATIZATION  
2,4-Dichlorophenoxyacetic acid  
2,4,5-Trichlorophenoxyacetic acid  
Dicamba  
Dinoseb  
MCPA  
Picloram

**Water (Organic)**

Carbamates - Water (106)  
CR-TM-090; modified from EPA 531.2  
LC-MS/MS  
Aldicarb  
Bendiocarb  
Carbaryl  
Carbofuran

**Water (Organic)**

Diquat and Paraquat - Water (105)  
CR-TM-117; modified from EPA 549.2  
LC-MS/MS  
Diquat  
Paraquat

**Water (Organic)**

Extractable Petroleum Hydrocarbons (EPH) - Water (012)  
CR-TM-009; BC MOE LABORATORY MANUAL  
GC/FID - EXTRACTION  
EPH C10-C19  
EPH C10-C19 (sq)  
EPH C19-C32  
EPH C19-C32 (sq)

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**Water (Organic)**

Glycols - Water (048)

CR-TM-054; modified from EPA 8015B

GC/FID

Diethylene glycol

Ethylene glycol

Propylene glycol

Triethylene glycol

**Water (Organic)**

Glyphosate - Water (104)

CR-TM-116; modified from EPA 547

LC-MS/MS

AMPA

Glufosinate

Glyphosate

**Water (Organic)**

Haloacetic Acids (HAA) - Water (033)

CR-TM-059; modified from EPA 552.3

GC/ECD - MICROEXTRACTION DERIVATIZATION

Bromochloroacetic acid

Bromodichloroacetic acid

Dibromoacetic acid

Dibromoacetic acid

Dichloroacetic acid

Monobromoacetic acid

Monochloroacetic acid

Trichloroacetic acid

**Water (Organic)**

Organochlorine (OC) and Organonitrogen (ON) and Organophosphorus (OP) Pesticides and Herbicides - Water (035)

CR-TM-068; modified from EPA 3510C (PREPARATION) and EPA 8270D (ANALYSIS)

GC/MS - EXTRACTION

A -BHC

a - Chlordane

Alachlor

Aldrin

Atrazine

Azinphos-methyl

beta-BHC

Bromacil

Bromoxynil

Captan

Chlorothalonil

Chlorpyrifos (ethyl)

cis-Permethrin

Cyanazine

delta-BHC

Deltamethrin

Desethyl atrazine

Diazinon

Dichlorvos

Diclofop-methyl

Dieldrin

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Dimethoate  
Disulfoton  
Diuron  
Endosulfan I  
Endosulfan II  
Endosulfan Sulfate  
Endrin  
Endrin Aldehyde  
Endrin Ketone  
γ - Chlordane  
Heptachlor  
Heptachlor Epoxide  
Lindane (γ-BHC)  
Linuron  
Malathion  
Methyl parathion  
Metolachlor  
Metribuzin  
o,p-DDD  
o,p-DDE  
o,p-DDT  
p,p' - DDT  
p,p' Methoxychlor  
p,p-DDD  
p,p-DDE  
Parathion (ethyl)  
Pentachloronitrobenzene  
Phorate  
Prometon  
Prometryne  
Propiconazole  
Ronnal  
Simazine  
Sulfotep  
Tebuthiuron  
Temephos  
Terbufos  
trans-Permethrin  
Triallate  
Trifluralin

**Water (Organic)**

Petroleum Hydrocarbons (PHC) - Water (056)

CR-TM-009; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GC/FID - EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

**Water (Organic)**

Phenols - Water (029)

CR-TM-052; EPA 3510C (PREPARATION) and EPA 8270D (ANALYSIS)  
GC/MS - EXTRACTION

2-Chlorophenol

2-Methyl-4,6-dinitrophenol

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2-Methylphenol (o-Cresol)  
2-Nitrophenol  
2,3-Dichlorophenol  
2,3,4-Trichlorophenol  
2,3,4,5-Tetrachlorophenol & 2,3,5,6-Tetrachlorophenol  
2,3,4,6-tetrachlorophenol  
2,3,5-Trichlorophenol  
2,3,6-Trichlorophenol  
2,4-Dichlorophenol + 2,5-Dichlorophenol  
2,4-Dimethylphenol  
2,4-Dinitrophenol  
2,4,5-Trichlorophenol  
2,4,6-trichlorophenol  
2,6-Dichlorophenol  
2,6-Dimethylphenol  
3-Chlorophenol & 4-Chlorophenol  
3-Methylphenol & 4-Methylphenol  
3,4-Dichlorophenol  
3,4-Dimethylphenol  
3,4,5-Trichlorophenol  
3,5-Dichlorophenol  
4-Chloro-3-methyl phenol  
4-Nitrophenol  
Catechol  
Hydroquinone  
Pentachlorophenol  
Phenol  
Resorcinol

**Water (Organic)**

Polychlorinated Biphenyls (PCB) Aroclors - Water (039)

CR-TM-064; modified from EPA 3510C (PREPARATION) and EPA 8082 (ANALYSIS)

GC/ECD - EXTRACTION

Aroclor 1016  
Aroclor 1221  
Aroclor 1232  
Aroclor 1242  
Aroclor 1248  
Aroclor 1254  
Aroclor 1260  
Aroclor 1262  
Aroclor 1268  
Total PCB

**Water (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Water (009)

CR-TM-016; EPA 3510C (PREPARATION) and EPA 8270D (ANALYSIS)

GC/MS - EXTRACTION

1-Methylnaphthalene  
2-Chloronaphthalene  
2-Methylnaphthalene  
3-Methylcholanthrene  
7,12-Dimethylbenz(a)anthracene  
Acenaphthene  
Acenaphthylene

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Acridine  
Anthracene  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (g,h,i) perylene  
Benzo(i)fluoranthene  
Benzo (k) fluoranthene  
Chrysene  
Dibenzo (a,h) anthracene  
Fluoranthene  
Fluorene  
Indeno (1,2,3 - cd) pyrene  
Naphthalene  
Phenanthrene  
Pyrene  
Quinoline

**Water (Organic)**

Volatile Fatty Acids - Water (076)

CR-TM-060; SM 5560 D

GC/FID

Acetic acid  
Butyric acid  
Caproic acid  
Heptanoic acid  
Isobutyric acid  
Isocaproic acid  
Isovaleric acid  
Propionic acid  
Valeric acid

**Water (Organic)**

Volatile Hydrocarbons (VH) - Water (027)

CR-TM-032; modified from BC MOE LABORATORY MANUAL and CCME CWS PETROLEUM

HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID - PURGE AND TRAP

F1: C6-C10

Volatile Hydrocarbon (VH)

**Water (Organic)**

Volatile Hydrocarbons (VH) - Water (072)

CR-TM-032; modified from BC MOE LABORATORY MANUAL and CCME CWS PETROLEUM

HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID - HEADSPACE

F1: C6-C10

Volatile Hydrocarbon (VH)

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (024)

CR-TM-031; EPA 5030B (PREPARATION) and EPA 8260C (ANALYSIS) and SM 6200 B (ANALYSIS)

GC/MS - PURGE AND TRAP

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

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1,1,2,2-Tetrachloroethane  
1,2-Dibromo-3-chloropropane (DBCP)  
1,2-dichlorobenzene  
1,2-dichloroethane  
1,2-Dichloropropane  
1,2,3-Trichlorobenzene  
1,2,3-Trichloropropane  
1,2,4-Trichlorobenzene  
1,2,4-Trimethylbenzene  
1,3-Butadiene  
1,3-Dichlorobenzene  
1,3-Dichloropropane  
1,3,5-Trimethylbenzene  
1,4-dichlorobenzene  
2-Chlorotoluene  
2-Hexanone (MBK)  
2,2-Dichloropropane  
4-Chlorotoluene  
4-Methyl-2-pentanol (MIBC)  
Acetone (2-Propanone)  
Acrylonitrile  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene  
Isopropylbenzene (Cumene)  
m/p-xylene  
Methyl ethyl ketone  
Methyl isobutyl ketone  
Methyl methacrylate  
Methyl t-butyl ether  
n-Butylbenzene  
n-Propylbenzene  
Naphthalene  
o-xylene  
p-Isopropyltoluene

† "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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sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl Chloride

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (070)

CR-TM-031; EPA 5021A (PREPARATION) and EPA 8260C (ANALYSIS)

GC/MS - HEADSPACE

1,1-Dichloroethane  
1,1-Dichloroethylene  
1,1-Dichloropropene  
1,1,1-Trichloroethane  
1,1,1,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,2-Dibromo-3-chloropropane (DBCP)  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloropropane  
1,2,3-Trichlorobenzene  
1,2,3-Trichloropropane  
1,2,4-Trichlorobenzene  
1,2,4-Trimethylbenzene  
1,3-Dichlorobenzene  
1,3-Dichloropropane  
1,3,5-Trimethylbenzene  
1,4-Dichlorobenzene  
2-Chlorotoluene  
2-Hexanone (MBK)  
2,2-Dichloropropane  
4-Chlorotoluene  
Acetone (2-Propanone)  
Acrylonitrile  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene

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cis-1,3-Dichloropropene  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene  
Isopropylbenzene (Cumene)  
m/p-xylene  
Methyl ethyl ketone  
Methyl isobutyl ketone  
Methyl methacrylate  
Methyl t-butyl ether  
n-Butylbenzene  
n-Propylbenzene  
Naphthalene  
o-xylene  
p-Isopropyltoluene  
sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl Chloride

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