



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 2694  
**Laboratory Name:** CARO Analytical Services - Richmond  
**Parent Institution:** CARO Analytical Services  
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**Standard:** Conforms with requirements of ISO/IEC 17025:2017  
**Clients Served:** All Interested Parties  
**Revised On:** August 5, 2021  
**Valid To:** September 10, 2022

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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-Dichloroethylene)  
1,1,1-Trifluoroethane (HFC 143a)  
1,1,1,2-Tetrachloroethane  
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113, Freon 113)  
1,1,2-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,2-Dibromo-3-chloropropane (DBCP)  
1,2-Dibromoethane (Ethylene dibromide)  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloropropane  
1,2,3-Trichloropropane  
1,2,4-Trichlorobenzene  
1,2,4-Trimethylbenzene  
1,3-Butadiene

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1,3-Dichloropropane  
1,3,5-Trimethylbenzene  
1,4-Dichlorobenzene  
2-Butanone (Methyl ethyl ketone, MEK)  
2-Chlorophenol  
2-Chlorotoluene  
2-Propanol (Isopropyl alcohol)  
4-Methyl-2-pentanone (MIBK)  
Acetone (2-Propanone)  
Acrylonitrile  
Allyl chloride (3-chloropropene)  
Benzene  
Bromobenzene  
Bromodichloromethane  
Bromoform  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chloroethane (Ethyl chloride)  
Chloroethene (Vinyl chloride)  
Chloroform  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Decane (n-Decane)  
Dibromochloromethane  
Dibromomethane  
Dichlorodifluoromethane (CFC-12, Freon 12)  
Dichloromethane (Methylene Chloride)  
Ethyl acetate  
Ethyl ether  
Ethyl methacrylate (Ethyl-2-Methyl-2-Propenoate)  
Ethylbenzene  
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)  
Hexachloroethane  
Hexane (n-Hexane)  
Isopropylbenzene (Cumene)  
m,p-Xylene  
Methacrylonitrile  
Methyl acrylate  
Methyl methacrylate

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Methyl tert-butyl ether (MTBE)  
Methylcyclohexane  
Naphthalene  
Nitrobenzene (NB)  
o-Xylene  
Styrene  
Tetrachloroethylene  
Tetrahydrofuran (THF)  
Toluene  
trans-1,2-Dichloroethylene (trans-1,2-Dichloroethene)  
trans-1,3-Dichloropropene  
Trichloroethene  
Trichlorofluoromethane (CFC-11, Freon 11)  
Volatile Hydrocarbons (VH): C6-C13

**Cannabis (Inorganic)**

Heavy Metals - Cannabis [Cannabis Oil, Flower] (154)  
CR-TM-167; modified from EPA 200.3

ICP/MS

Arsenic

Cadmium

Lead

Mercury

**Cannabis (Organic)**

Cannabinoids - Cannabis [Cannabis Oil, Flower] (Burnaby) (147)  
CR-TM-161;

HPLC

Cannabidiol (CBD)

Cannabidiol (CBD)

Cannabidiolic acid (CBDA)

Cannabidiolic acid (CBDA)

delta-9-Tetrahydrocannabinol (delta-9-THC)

Tetrahydrocannabinolic acid (THCA)

Tetrahydrocannabinolic acid (THCA)

Tetrahydrocannabinol (THC)

**Cannabis (Organic)**

Mycotoxins - Cannabis [Cannabis Oil, Flower] (Burnaby) (143)  
CR-TM-156, CR-TM-166; modified from USP 561

LC/MS/MS

Aflatoxin B1

Aflatoxin B2

Aflatoxin G1

Aflatoxin G2

Ochratoxin A

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## **Cannabis (Organic)**

Pesticides - Cannabis [Cannabis Oil, Flower] (Burnaby) (151)

CR-TM-160;

LC/MS/MS

Abamectin

Acephate

Acequinocyl

Acetamiprid

Aldicarb

Allethrin

Azadirachtin

Azoxystrobin

Benzovindiflupyr

Bifenazate

Bifenthrin

Boscalid

Buprofezin

Carbaryl

Carbofuran

Chlorantraniliprole

Chlorphenapyr

Chlorpyrifos

Clofentezine

Clothianidin

Coumaphos

Cyantraniliprole

Cyfluthrin

Cypermethrin

Cyprodinil

Daminozide

Deltamethrin

Diazinon

Dichlorvos (DDVP)

Dimethoate

Dinotefuran

Dodemorph

Ethoprophos

Etofenprox

Etoxazole

Fenoxycarb

Fenpyroximate

Fensulfothion

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Fenthion  
Flonicamid  
Fluopyram  
Hexythiazox  
Imazalil  
Imidacloprid  
Iprodione  
Kinoprene (Enstar)  
Kresoxim-methyl  
Malathion  
Metalaxyl  
Methiocarb  
Methomyl  
Methoprene  
Methyl parathion (Parathion-methyl)  
Mevinphos (Phosdrin)  
MGK-264  
Myclobutanil  
Naled (Dibrom)  
Novaluron  
Oxamyl  
Paclobutrazol  
Permethrin  
Phenothrin  
Phosmet (Imidan)  
Piperonyl butoxide  
Pirimicarb  
Prallethrin  
Propiconazole  
Propoxur (Baygon)  
Pyraclostrobin  
Pyrethrins  
Pyridaben  
Resmethrin  
Spinetoram  
Spinosad  
Spirodiclofen  
Spiromesifen  
Spirotetramat  
Spiroxamine  
Tebuconazole

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Tebufenozide  
Teflubenzuron  
Tetrachlorvinphos  
Tetramethrin  
Thiacloprid  
Thiamethoxam  
Thiophanate-methyl  
Trifloxystrobin

**Cannabis (Organic)**

Pesticides - Cannabis [Cannabis Oil, Flower] (Burnaby) (152)

CR-TM-160;

GC/MS/MS

Endosulfan I (Endosulphan I, a-Endosulfan)

Endosulfan II (b-Endosulfan)

Endosulfan sulfate (Endosulphan sulphate)

Etridiazole

Fenvalerate

Fipronil

Fipronil

Fludioxonil

Fludioxonil

Pentachloronitrobenzene (Quintozene)

**Cannabis (Organic)**

Residual Solvents - Cannabis [Cannabis Oil] (Burnaby) (141)

CR-TM-162; modified from USP 467

GC/MS-HEADSPACE

1-Butanol (n-Butanol)

1-Pentanol

1-Propanol (Propanol)

2-Butanol

2-Butanone (Methyl ethyl ketone, MEK)

2-Propanol (Isopropyl alcohol)

4-Methyl-2-pentanone (MIBK)

Acetone (2-Propanone)

Anisole

Butyl acetate

Ethanol

Ethyl acetate

Ethyl ether

Ethyl formate

Heptane

Isobutanol (2-Methyl-1-propanol)

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Isobutyl acetate  
Isopropyl acetate  
Methyl acetate  
Pentane  
Propyl acetate  
Tert-Butylmethyl ether

**Food**

NSAIDS, Steroids, Hormones and - Food [Animal Tissue, Egg] (Burnaby) (110)  
CR-TM-127; CVDR-M-3034

LC/MS/MS  
17a-Trenbolone  
17b-Trenbolone  
19-Nortestosterone  
20-Dihydroprednisolone  
20-Dihydroprednisone  
Acepromazine  
Altrenogest  
Azaperol  
Azaperone  
Beclomethasone  
Betamethasone  
Boldenone  
Butorphanol  
Carazolol  
Chlorpromazine  
Detomidine  
Dexamethasone  
Dianabol (Methandrostenolone)  
Diclofenac  
Epi-testosterone  
Epi-testosterone  
Etodolac  
Flumethasone  
Flunixin  
Haloperidol  
Ketoprofen  
Mefenamic acid  
Meloxicam  
Methylprednisolone  
Naproxen  
Niflumic Acid  
Oxyphenbutazone

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Phenylbutazone  
Prednisolone  
Prednisone  
Progesterone  
Propionylpromazine  
Testosterone  
Tolfenamic acid  
Xylazine

**Food (Inorganic)**

Metals - Food [Egg, Fruit, Honey, Meat, 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

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Selenium

Tin

Titanium

Zinc

**Food (Organic)**

4-Methylimidazole - Food [Beverage] (Burnaby) (130)

CR-TM-146; modified from CFIA LCAQ-117-04

LC/MS/MS

4-Methylimidazole

**Food (Organic)**

Aflatoxins - Food [Cereal] (Burnaby) (132)

CR-TM-151; CFIA BFCL-002

LC/MS/MS

Aflatoxin B1

Aflatoxin B2

Aflatoxin G1

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Aflatoxin G2

**Food (Organic)**

Alar - Food [Fruit, Honey, Processed Food, Vegetables] (Burnaby) (077)

CB-TM-021; PMRA: P-RE-057-97(1) - AMO

GC/MS

Alar (Daminozide)

**Food (Organic)**

Aminoglycosides - Food [Animal Tissue, Egg, Honey] (Burnaby) (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] (Burnaby) (078)

CR-TM-093; modified from CFIA CALGARY CSP-006-V1.0

LC/MS/MS

Amitraz + 2,4-Dimethylaniline

**Food (Organic)**

Antibiotics - Food [Animal Tissue, Egg, Honey] (Burnaby) (103)

CR-TM-106; CENTER FOR VETERINARY MEDICINE, US FDA, VOLUME 56: J. ARGIC. FOOD CHEM 1553-1559, 2008

LC/MS/MS

Chloramphenicol

Chlortetracycline (CTC)

Ciprofloxacin

Danofloxacin

Desmycosin (Tylosin B)

Difloxacin

Doxycycline

Enrofloxacin

Erythromycin

Fumagillin

Lincomycin

Monensin

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Oxytetracycline (OTC)  
Sarafloxacin  
Streptomycin  
Sulfathiazole  
Tetracycline  
Tylosin

**Food (Organic)**

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

**Food (Organic)**

Benzimidazoles - Food [Animal Tissue, Egg] (Burnaby) (113)  
CB-TM-013; modified from FSIS BNZ  
LC/MS/MS  
5-Hydroxythiabendazole  
Albendazole  
Albendazole sulphone (Albendazole sulfone)  
Albendazole sulphoxide (Albendazole sulfoxide)  
Albendazole-2-aminosulphone (Albendazole-2-aminosulfone)  
Cambendazole  
Carbendazim  
Fenbendazole  
Fenbendazole sulfone  
Flubendazole  
Levamisole  
Mebendazole  
Oxfendazole  
Oxibendazole  
Thiabendazole

**Food (Organic)**

Beta-Agonists - Food [Animal Tissue, Egg] (Burnaby) (156)  
CR-TM-153; CFIA CVDR-M-3033.01  
LC/MS/MS  
Brombuterol hydrochloride  
Cimaterol  
Clenbuterol hydrochloride  
Clenpenterol hydrochloride  
Clenpropanol  
Fenoterol hydrobromide  
Formoterol fumarate dihydrate  
Hydroxymethylclenbuterol  
Isoxsprine hydrochloride

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Mabuterol  
Mapenterol hydrochloride  
Metaproterenol hemisulphate  
Ractopamine hydrochloride  
Ritodrine hydrochloride  
Salbutamol  
Terbutaline hemisulphate  
Tulobuterol hydrochloride  
Zilpaterol

**Food (Organic)**

Carbadox - Food [Animal Tissue] (Burnaby) (157)  
CR-TM-154; CFIA CVDR-M-3015.06

LC/MS/MS

1,4 Bis-desoxycarbadox (DCBX)  
3-Methylquinoxaline-2-carboxylic acid (MQCA)  
Quinoxaline-2-carboxylic acid (QCA)

**Food (Organic)**

Carbamates - Food [Animal Tissue, Egg] (Burnaby) (129)  
CR-TM-144; modified from CLG-PST5.07

LC/MS/MS

3-Hydroxycarbofuran  
Aldicarb  
Aldicarb sulphone (Aldicarb sulfone)  
Aldicarb sulphoxide (Aldicarb sulfoxide)  
Bendiocarb  
Carbaryl  
Carbofuran  
Dioxacarb  
Isoprocarb  
Methiocarb  
Methiocarb sulfoxide  
Methomyl  
Oxamyl  
Promecarb  
Propoxur (Baygon)

**Food (Organic)**

Carbamates - Food [Fruit, Honey, Processed Food, Vegetables] (Burnaby) (102)  
CB-TM-006; CFIA CALGARY PMR-016-V1.0

LC/MS/MS

3-Hydroxycarbofuran  
Aldicarb  
Aldicarb sulphone (Aldicarb sulfone)

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Aminocarb  
Bendiocarb  
Carbaryl  
Carbofuran  
Dioxacarb  
Methiocarb  
Methiocarb sulfoxide  
Methomyl  
Oxamyl  
Promecarb  
Propoxur (Baygon)

**Food (Organic)**

Ceftiofur - Food [Egg, Meat] (171)  
CB-TM-020; modified from CFIA SASKATOON CVDR-M-3031.12  
LC/MS/MS  
Desfuroylceftiofur acetamide (DCA)

**Food (Organic)**

Coccidiostats - Food [Animal Tissue, Egg] (Burnaby) (109)  
CR-TM-126; CVDR-M-1002  
LC/MS/MS  
Amprolium  
Buquinolate  
Clopidol  
Decoquinatate  
Diclazuril  
DNC (Nicarbazin Metabolite)  
Ethopabate  
Fenbendazole  
Halofuginone  
Lasalocid  
Maduramycin  
Monensin  
Narasin  
Ractopamine  
Robenidine  
Salinomycin  
Toltrazuril sulfone

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**Food (Organic)**

Dipyron - Food [Animal Tissue] (Burnaby) (120)

CR-TM-137; CLG-DPN1.00

HPLC/UV - EXTRACTION

4-(Methylamino)antipyrine

4-Aminoantipyrine (4-AAP)

4-Formylaminoantipyrine

Dipyron

**Food (Organic)**

Diquat and Paraquat - Food [Fruit, Processed Food, Vegetables] (Burnaby) (099)

CB-TM-008; EURL-SRM QUPPE - METHOD VERSION 9.1 May 2016

LC/MS/MS

Diquat

Paraquat

**Food (Organic)**

EBDC - Food [Fruit, Honey, Vegetables] (Burnaby) (079)

CR-TM-094; modified from PMRA: P-RE-053-95-EBDC

GC/MS

total dithiocarbamates as Zineb

**Food (Organic)**

EBDC - Food [Fruit, Honey, Vegetables] (Burnaby) (080)

CR-TM-095; CFIA CALGARY SPR-002 V2.6

HPLC

Ethylenediamine

**Food (Organic)**

Endectocides - Food [Animal Tissue, Egg] (Burnaby) (114)

CR-TM-131; CFIA SOM-DAR-CHE-030-03

LC/MS/MS

Abamectin

Doramectin

Emamectin

Eprinomectin

Ivermectin

Moxidectin

**Food (Organic)**

Ethylene thiourea - Food [Fruit, Honey, Processed Food, Vegetables] (Burnaby) (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 (ETA)

**Food (Organic)**

Flouroquinolones - Food [Animal Tissue, Egg, Honey] (Burnaby) (140)

CB-TM-018; CFIA MULTICLASS VET DRUG BY LC-MS/MS

LC/MS/MS

Ciprofloxacin

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Danofloxacin  
Desethylene Ciprofloxacin  
Difloxacin  
Enflurane  
Enoxacin  
Enrofloxacin  
Flumequine  
Marbofloxacin  
Nalidixic acid  
Norfloxacin  
Ofloxacin  
Orbifloxacin  
Oxolinic acid  
Pipemidic acid  
Sarafloxacin  
Sparfloxacin

**Food (Organic)**

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

**Food (Organic)**

Furans - Food [Processed Food] (Burnaby) (133)  
CR-TM-145; CONTAMINANTS, VOL. 27, . NO.6, JUNE 2010 and FOOD ADDITIVE  
GC/MS  
2-Methylfuran  
3-Methylfuran  
Furan

**Food (Organic)**

Gestagens - Food [Animal Tissue] (Burnaby) (119)  
CR-TM-136; modified from CVDR-M-3016  
LC/MS/MS  
Chlormadinone acetate  
Megestrol acetate  
Melengestrol acetate (MGA)

**Food (Organic)**

Glyphosate - Food [Fruit, Processed Food, Vegetables] (Burnaby) (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  
Aminomethylphosphonic acid (AMPA)  
Glufosinate  
Glyphosate

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**Food (Organic)**

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

**Food (Organic)**

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

**Food (Organic)**

Macrolides and Liincosamides - Food [Animal Tissue, Egg, Honey] (Burnaby) (139)  
CR-TM-105; modified from CFIA MULTICLASS VET DRUG BY LC-MS/MS  
LC/MS/MS  
Clindamycin  
Desmycosin (Tylosin B)  
Erythromycin  
Gamithromycin  
Josamycin  
Lincomycin  
Neospiramycin  
Oleandomycin  
Pirlimycin  
Spiramycin  
Tildipirosin  
Tilmicosin  
Tulathromycin  
Tylosin  
Tylvalosin

**Food (Organic)**

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

**Food (Organic)**

Nitrofurans - Food [Animal Tissue, Egg, Honey] (Burnaby) (092)  
CR-TM-107; CFIA CALGARY ACC-070-V1.4  
LC/MS/MS  
3-Amino-2-oxazolidinone (AOZ)

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AHD

Solvent Extractable Matter (SEM)

**Food (Organic)**

Nitroimidazoles - Food [Animal Tissue, Egg, Honey] (Burnaby) (098)

CB-TM-009; JOURNAL OF AOAC INTERNATIONAL VOL 90, NO 3 PG.872-878

LC/MS/MS

Dimetridazole

Dimetridazole metabolite

Ipronidazole

Ipronidazole metabolite

Metronidazole

Metronidazole metabolite

Ronidazole

Tinidazole

**Food (Organic)**

Penicillin Residues - Food [Animal Tissue, Egg, Honey] (Burnaby) (093)

CR-TM-108; CFIA CALGARY ACC-063-V1.0

LC/MS/MS

Amoxicillin

Ampicillin

Cloxacillin

Dicloxacillin

Nafcillin

Oxacillin

Penicillin G

Penicillin V

**Food (Organic)**

Pesticides - Food [Animal Tissue, Egg] (Burnaby) (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

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Diuron (DCPMU)  
Fenoxaprop-ethyl  
Fluridone  
Imazalil  
Imidacloprid  
Indoxacarb  
Methomyl  
Methoxyfenozide  
Pyraclostrobin  
Pyriproxyfen  
Tebufenozide  
Thiabendazole  
Thiamethoxam

**Food (Organic)**

Pesticides - Food [Animal Tissue, Egg] (Burnaby) (127)  
CR-TM-142; modified from CLG-PST5.07

GC/MS/MS

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

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

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

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

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

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

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

Alachlor

Alachlor metabolite (2-chloro-2',6'-diethylanilide)

Aldrin

alpha-Chlordane (a-Chlordane)

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

Atrazine

Azoxystrobin

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

Bifenthrin

Buprofezin

Carbaryl

Carbofuran

Carboxin (Carbathiin)

Chloroneb

Chlorpropham (CIPC)

Chlorpyrifos

Chlorpyrifos methyl (Reldan)

cis-Permethrin

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Coumaphos O  
Coumaphos S  
Cyfluthrin  
Cypermethrin  
Cypermethrin  
Deltamethrin  
Deltamethrin  
Desethyl atrazine  
Dichlorvos (DDVP)  
Dicofol  
Dieldrin  
Endosulfan I (Endosulphan I, a-Endosulfan)  
Endosulfan II (b-Endosulfan)  
Endosulfan sulfate (Endosulphan sulphate)  
Endrin  
Ethofumesate  
Fenchlorphos (Ronnel)  
Fenpropathrin  
Fenvalerate  
Fipronil  
Fipronil desulfinyl  
Fipronil sulfide  
Flucythrinate  
Fluroxypyr-1-methylheptyl ester  
Fluvalinate  
Heptachlor  
Heptachlor endo-epoxide  
Hexachlorobenzene (HCB)  
Hexazinone  
lambda-Cyhalothrin  
Lindane (gamma-Hexachlorocyclohexane, g-HCH, g-BHC, gamma-HCH, gamma-BHC)  
Linuron  
Malathion  
Metalaxyl  
Methoxychlor  
Metolachlor  
Metribuzin  
Mirex  
Myclobutanil  
Norflurazon  
Oxychlorane

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Permethrin  
Piperonyl butoxide  
Profenofos  
Pronamide  
Propachlor  
Propanil  
Propetamphos  
Propiconazole  
Pyridaben  
Resmethrin  
Simazine  
Tau-Fluvalinate  
Tebufenozide  
Tefluthrin  
Thiobencarb  
trans-Chlordane (gamma-Chlordane)  
trans-Nonachlor  
trans-Permethrin  
Trifloxystrobin

**Food (Organic)**

Pesticides - Food [Fruit, Honey, Processed Food, Vegetables] (Burnaby) (082)  
CB-TM-007; CFIA CALGARY PMR-001-V1.11 and CFIA CALGARY PMR-002-V1.1

GC/MS

2-Phenylphenol (ortho-Phenylphenol)

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)

Acephate

Acibenzolar-S-methyl

Alachlor

Aldrin

Allethrin 1

Allethrin 2

Allidochlor

alpha-Chlordane (a-Chlordane)

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

Ametryn

Aramite 1

Aramite 2

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Aspon  
Atrazine  
Azinphos-ethyl  
Azinphos-methyl (Guthion)  
Azoxyastrobin  
Benalaxyl  
Benfluralin  
Benodanil  
Benzoylprop-ethyl  
beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-HCH, beta-BHC)  
Bifenox  
Bifenthrin  
Biphenyl (1,1-Biphenyl)  
Bromacil  
Bromophos-ethyl  
Bromophos-methyl  
Bromopropylate  
Bupirimate  
Buprofezin  
Butachlor  
Butralin  
Butylate (Sutan)  
Captafol  
Captan  
Carbetamide  
Carbophenothion  
Carboxin (Carbathiin)  
Chlorbenside  
Chlorbromuron  
Chlorbufam  
Chlordimeform  
Chlorfenson  
Chlorfenvinphos (e + z)  
Chlorflurenol-methyl  
Chloridazon (Pyrazon)  
Chlormephos  
Chlorobenzilate  
Chloroneb  
Chloropropylate  
Chlorothalonil (Daconil)  
Chlorpropham (CIPC)

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Chlorpyrifos  
Chlorpyrifos methyl (Reldan)  
Chlorthiamid  
Chlorthiamid (parent)  
Chlorthion  
Chlorthiophos  
Chlozolate  
cis-Diallate (Diallate I)  
cis-Mevinphos  
cis-Permethrin  
Clomazone  
Coumaphos  
Crotoxyphos  
Crufomate  
Cyanazine (Bladex)  
Cyanophos  
Cycloate  
Cyfluthrin I  
Cyfluthrin I  
Cyfluthrin II  
Cyfluthrin III  
Cypermethrin I  
Cypermethrin II  
Cypermethrin III  
Cypermethrin IV  
Cyprazine  
Cyproconazole  
Cyprodinil  
Cyromazine  
Dacthal (Chlorthal-dimethyl, DCPA)  
delta-Hexachlorocyclohexane (d-HCH, d-BHC, delta-HCH, delta-BHC)  
delta-trans-Allethrin  
Deltamethrin  
Demeton-O  
Demeton-S  
Demeton-S-methyl  
Desethyl atrazine  
Desmetryn  
Dialifos  
Diazinon  
Diazinon-O

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Dichlobenil (Casoron)  
Dichlofenthion  
Dichlofluanid  
Dichloran  
Dichlormid  
Dichlorvos (DDVP)  
Diclobutrazole  
Diclofop-methyl (as free acid)  
Dicofol  
Dicrotophos  
Dieldrin  
Diethyl-ethyl  
Dimethachlor  
Dimethoate  
Dinitramine  
Dioxathion  
Diphenamid  
Diphenylamine  
Disulfoton (Disyston)  
Disulfoton sulfone  
Edifenphos  
Endosulfan I (Endosulphan I, a-Endosulfan)  
Endosulfan II (b-Endosulfan)  
Endosulfan sulfate (Endosulphan sulphate)  
Endrin  
Eptam (EPN)  
Eptam (EPTC)  
Erbon  
Etaconazole 1  
Etaconazole 2  
Ethalfuralin  
Ethion  
Ethofumesate  
Ethoprophos  
Etridiazole  
Etrimfos  
Fenamiphos  
Fenamiphos Sulfone  
Fenamiphos Sulfoxide  
Fenarimol  
Fenbuconazole

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Fenchlorphos (Ronnell)  
Fenfuram  
Fenitrothion  
Fenpropathrin  
Fenson  
Fensulfothion  
Fenthion  
Fenvalerate  
Fenvalerate I  
Fenvalerate II  
Flamprop-isopropyl  
Flamprop-methyl  
Fluchloralin  
Flucythrinate I  
Flucythrinate II  
Fludioxonil  
Flumetralin  
Flurochloridone I  
Flurochloridone II  
Fluorodifen  
Flusilazole  
Fluvalinate 1 (tau)  
Fluvalinate 2 (tau)  
Folpet  
Fonofos  
Heptachlor  
Heptachlor endo-epoxide  
Heptachlor exo-epoxide  
Heptenophos  
Hexachlorobenzene (HCB)  
Hexaconazole  
Hexazinone  
Imazalil  
Iodofenphos  
Iprobenfos  
Iprodione I  
Iprodione II  
Isazophos  
Isofenphos  
Isopropalin  
Isoprothiolane

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Kresoxim-methyl  
lambda-Cyhalothrin  
Leptophos  
Lindane (gamma-Hexachlorocyclohexane, g-HCH, g-BHC, gamma-HCH, gamma-BHC)  
Linuron  
Malaaxon  
Malathion  
Mecarbam  
Metalaxyl  
Metazachlor  
Methamidophos  
Methoprotryne  
Methoxychlor  
Methyl parathion (Parathion-methyl)  
Methyl trithion  
Metobromuron  
Metolachlor  
Metribuzin  
Mexacarbate (parent)  
Mirex  
Monocrotophos  
Monolinuron  
Myclobutanil  
Naled (Dibrom)  
Nitralin  
Nitrapyrin  
Nitrofen  
Nitrothal-isopropyl  
Norflurazon  
Nuairimol  
Octhilinone  
Omethoate  
Oxadiazon  
Oxadixyl  
Oxycarboxin  
Oxychlorane  
Oxyfluorfen  
Paraoxon  
Parathion (Ethyl parathion, Parathion (ethyl))  
Pebulate  
Penconazole

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Pendimethalin  
Pentachloroaniline  
Pentachloronitrobenzene (Quintozene)  
Pentachlorothioanisole (Methyl pentachlorophenyl sulfide)  
Pentachlorothioanisole (Methyl pentachlorophenyl sulfide)  
Perthane (Ethylan)  
Phenthoate  
Phorate  
Phorate sulfone  
Phosalone  
Phosmet (Imidan)  
Phosphamidon  
Piperonyl butoxide  
Pirimicarb  
Pirimiphos-ethyl  
Pirimiphos-methyl  
Prochloraz  
Procymidone  
Profenofos  
Profluralin  
Prometon  
Prometryne  
Pronamide  
Propachlor  
Propanil  
Propargite (1&2)  
Propazine  
Propetamphos  
Propham (IPC)  
Propiconazole I  
Propiconazole II  
Prothiophos (Tokuthion)  
Pyracarbolid  
Pyrazophos  
Pyridaben  
Quinalphos  
Quinomethionate  
Schradan  
Secbumeton  
Simazine  
Simetryn

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Sulfallate  
Sulfotep  
Sulprophos (Bolstar)  
TCMTB  
Tebuconazole  
Tecnazene  
Terbacil  
Terbufos  
Terbumeton  
Terbutryn  
Terbutylazine  
Tetrachlorvinphos  
Tetradifon  
Tetraiodoethylene  
Tetramethrin I  
Tetramethrin II  
Tetrasul  
Thiobencarb  
Tolclofos-methyl  
Tolyfluanid  
trans-Chlordane (gamma-Chlordane)  
trans-Diallate (Diallate II)  
trans-Mevinphos  
trans-Permethrin  
Triadimefon  
Triadimenol 1 (Baytan)  
Triadimenol 2 (Baytan)  
Triallate  
Triazophos  
Tribufos  
Tricyclazole  
Trifloxystrobin  
Triflumizole  
Trifluralin  
Vernolate  
Vinclozolin

**Food (Organic)**

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

CB-TM-006; CFIA CALGARY PMR-016-V1.0

LC/MS/MS

3-Hydroxycarbofuran

Abamectin B1a

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Acetamiprid  
Acetochlor  
Aclonifen  
Aldicarb  
Aldicarb sulphone (Aldicarb sulfone)  
Aldicarb sulphoxide (Aldicarb sulfoxide)  
Aminocarb  
Anilofos  
Azaconazole  
Bendiocarb  
Benomyl  
Benoxacor  
Bitertanol  
Boscalid  
Bromuconazole  
Bufencarb  
Butafenacil  
Butocarboxim  
Butocarboxim sulfoxide  
Cadusafos  
Carbaryl  
Carbendazim  
Carbetamide  
Carbofuran  
Carfentrazone-ethyl  
Chlorantraniliprole  
Chlorbromuron  
Chloridazon (Pyrazon)  
Chloridazon (Pyrazon)  
Chlorimuron-ethyl  
Chloroxuron  
Chlortoluron  
Clodinafop-propargyl  
Cloquintocet-mexyl  
Clothianidin  
Cyanofenphos  
Cyazofamid  
Cycloxydim  
Cycluron  
Cyromazine  
Demeton-S-methyl-sulfone

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Desmedipham  
Dialifos  
Diclocymet  
Diethofencarb  
Difenoconazole  
Dimethametryn  
Dimethomorph  
Dimetilan  
Dimoxystrobin  
Diniconazole  
Dioxacarb  
Dipropetryn  
Diuron (DCPMU)  
Dodemorph  
Emamectin  
Epoconazole  
Ethiofencarb  
Ethiofencarb sulfone  
Ethiofencarb sulfoxide  
Ethiprole  
Ethirimol  
Ethoprophos  
Etofenprox  
Etoxazole  
Fenamidone  
Fenazaquin  
Fenhexamid  
Fenoxanil  
Fenpropimorph  
Fenpyroximate  
Fentrazamide  
Fluazifop-butyl  
Flubendiamide  
Flucarbazone-sodium  
Fluoxastrobin  
Flutolanil  
Flutriafol  
Forchlorfenuron  
Formetanate  
Fosthiazate  
Fuberidazole

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Furathiocarb  
Griseofulvin  
Haloxyfop  
Imazamethabenz-methyl  
Imazethapyr  
Imidacloprid  
Indoxacarb  
Ipconazole  
Iprovalicarb  
Isocarbamide  
Isoprocarb  
Isoxadifen-ethyl  
Isoxathion  
Mandipropamid  
Mepanipyrim  
Mepanipyrim  
Mephosfolan  
Methabenzthiazuron  
Methidathion (Supracide)  
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

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Pencycuron  
Penoxsulam  
Picolinafen  
Picoxystrobin  
Piperophos  
Pretilachlor  
Primisulfuron-methyl  
Prodiamine  
Promecarb  
Propamocarb  
Prophos  
Propoxur (Baygon)  
Pymetrozine  
Pyraclostrobin  
Pyraflufen-ethyl  
Pyridalyl  
Pyridaphention  
Pyridate  
Pyrifenox  
Pyrimethanil  
Pyriproxyfen  
Pyroquilon  
Pyroxsulam  
Quinoxifen  
Quizalofop  
Quizalofop-ethyl  
Schradan  
Simeconazole  
Spinosad  
Spinosyn A  
Spinosyn D  
Spirodiclofen  
Spiromesifen  
Spirotetramat  
Spiroxamine  
Sulfentrazone  
Tebufenozide  
Tebufenpyrad  
Tebupirimfos  
Tepraloxydim  
Tetraconazole

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Thiabendazole  
Thiacloprid  
Thiamethoxam  
Thiazopyr  
Thiodicarb  
Thiofanox  
Thiofanox sulfone  
Thiofanox sulfoxide  
Thiophanate-methyl  
Tolfenpyrad  
Tolyfluanid  
Tralkoxydim  
Trichlorfon  
Tricyclazole  
Trietazine  
Trifloxysulfuron  
Triforine  
Trimethacarb  
Zinophos  
Zoxamide

**Food (Organic)**

Phenicol Residues - Food [Animal Tissue, Egg, Honey] (Burnaby) (094)  
CB-TM-025; CFIA CALGARY ACC-062-V2.3

LC/MS/MS  
Chloramphenicol  
Florfenicol  
Thiamphenicol

**Food (Organic)**

Phenols - Food [Animal Tissue, Egg] (Burnaby) (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] (Burnaby) (085)  
CB-TM-002; CRL - ACIDIC PESTICIDES BY QUECHERS (2007)

LC/MS/MS  
2,4-Dichlorophenoxyacetic acid (2,4-D)  
2,4-Dichlorophenoxybutyric acid (2,4-DB)  
2,4-Dichlorophenoxypropionic acid (2,4-DP, Dichlorprop)  
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T, Silvex, Fenoprop)

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Acifluorfen  
Bentazon  
Bromoxynil  
Chloramben  
Clopyralid  
Dicamba  
Dinoseb  
Fenoprop  
MCPA (2-Methyl-4-chlorophenoxyacetic acid)  
MCPB (4-(4-chloro-2-methylphenoxy)butanoic acid)  
MCPP (Mecoprop, Methylchlorophenoxypropionic acid)  
Picloram  
Triclopyr

**Food (Organic)**

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

**Food (Organic)**

Polar Pesticides - Food [Fresh Vegetable, Fruit, Honey, Meat, Processed Food] (Burnaby) (160)  
CB-TM-010; EU REFERENCE LABORATORY OF PESTICIDES (EURL) - SRM QUPPE - (VERSION 11)  
LC/MS/MS  
1,1-Dimethylhydrazine  
15-Phenyl-3-methylpentadecanoic acid (MPPA)  
Aminocyclopyrachlor  
Aminomethylphosphonic acid (AMPA)  
Aminomethylphosphonic acid N-acetyl (N-acetyl AMPA)  
Amitrole  
Bialaphos  
Chlorate  
Chloridazon-desphenyl  
Chlormequat  
Cyanuric acid  
Cyromazine  
Daminozide  
Difenzoquat  
Diquat  
Ethephon  
Ethylene thiourea (ETU)  
Fosetyl-Al  
Glufosinate  
Glyphosate

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Hexaethylphosphoramide (HEPA)  
Maleic hydrazide  
Melamine  
Mepiquat  
Mepiquat-4-hydroxy  
N-acetyl-glufosinate  
N-acetyl-glyphosate  
Nereistoxin  
Paraquat  
Perchlorate  
Phosphonic acid  
Propamocarb  
Propamocarb-N-desmethyl  
Propamocarb-N-oxide  
Propyl thiouracil (PTU)  
Trimesium

**Food (Organic)**

Sulfonamide - Food [Animal Tissue, Egg, Honey] (Burnaby) (095)  
CR-TM-110; CFIA CALGARY ACC-056-V4.1

LC/MS/MS

Dapsone

Sulfabenzamide

Sulfacetamide

Sulfachloropyridazine

Sulfadiazine

Sulfadimethoxine

Sulfadoxine

Sulfaethoxypyridazine

Sulfaguanidine

Sulfamerazine

Sulfameter

Sulfamethazine

Sulfamethizole

Sulfamethoxazole

Sulfamethoxypyridazine

Sulfamonomethoxine

Sulfamoxole

Sulfanilamide

Sulfaphenazole

Sulfapyridine

Sulfaquinoxaline

Sulfathiazole

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Sulfisomidine  
Sulfisoxazole  
Trimethoprim

**Food (Organic)**

Tetracyclines - Food [Animal Tissue, Egg, Honey] (Burnaby) (096)  
CR-TM-111; CFIA CALGARY ACC-042-V2.0

LC/MS/MS

4-Epioxytetracycline (EOTC)

4-Epioxytetracycline (EOTC)

4-Epitetracycline (ETC)

Chlortetracycline (CTC)

Doxycycline

Oxytetracycline (OTC)

Tetracycline

**Food (Organic)**

Thyreostats - Food [Animal Tissue, Egg] (Burnaby) (158)  
CR-TM-155; CFIA CVDR-M-3003.05

LC/MS/MS

2-Mercaptobenzimidazole

2-Thiouracil

6-Methyl-2-thiouracil

6-Phenyl-2-thiouracil

6-Propyl-2-thiouracil

Tapazole

**Food (Organic)**

Tiamulin - Food [Animal Tissue, Egg] (Burnaby) (112)  
CR-TM-129; CVDR-M-3031

LC/MS/MS

Tiamulin

**Food (Organic)**

Toltrazuril - Food [Animal Tissue, Egg] (Burnaby) (116)  
CR-TM-133; CVDR-M-3031

LC/MS/MS

Toltrazuril sulfone

**Food (Organic)**

Trenbolone - Food [Animal Tissue, Egg] (Burnaby) (121)  
CR-TM-138; modified from CVDR-M-3017

LC/MS/MS

alpha-Trenbolone

beta-Trenbolone

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**Food (Organic)**

Virginiamycin M1 - Food [Animal Tissue, Egg] (Burnaby) (123)  
CR-TM-140; modified from CVDR-M-VIRG-SP01  
LC/MS/MS  
Virginiamycin M1

**Food (Organic)**

Zeranol and Stilbenes - Food [Meat] (Burnaby) (159)  
CB-TM-003; CFIA SASKATOON: CVDR-M-3035.03  
LC/MS/MS  
alpha-Trenbolone  
alpha-Zearalenol  
beta-Trenbolone  
beta-Zearalenol  
Dienestrol  
Diethylstilbesterol  
Hexestrol  
Taleranol  
Zearalenone  
Zearalenone  
Zeranol (Taleranol)

**Soil (Organic)**

Perfluorinated Alkyl Substances (PFAS) - Solids [Soil] (Burnaby) (137)  
CB-TM-005; modified from ASTM D7968-17A  
LC/MS/MS  
Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)  
Perfluorobutanoic acid (PFBA, Perfluorobutanoate)  
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)  
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)  
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)  
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)  
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)  
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)  
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)  
Perfluorononanoic acid (PFNA, Perfluorononanoate)  
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)  
Perfluorooctanesulfonamide (PFOSA)  
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)  
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)  
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)  
Perfluorotridecanoic acid (PFTTrDA, Perfluorotridecanoate)  
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

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**Solids (Inorganic)**

Chloride - Solids [Saturated Paste] (063)

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

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 Liquids

**Solids (Inorganic)**

Hexavalent Chromium - Solids [Soil] (046)

CR-TM-034; EPA 3060A (PREPARATION) and EPA 7196A (ANALYSIS)

COLORIMETRIC - ALKALINE DIGESTION

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

Hot Water Extractable Boron (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

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Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
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  
Percent Clay  
Percent Sand  
Percent Silt

**Solids (Inorganic)**

Particle Size Analysis (PSA) - Solids [Soil] (062)  
CR-TM-081; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 55.4  
GRAVIMETRIC - WET SIEVE  
Particle Size (75um)

**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)  
AUTOMATED 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

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Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Mercury  
Molybdenum  
Nickel  
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-Dichlorophenoxyacetic acid (2,4-D)

2,4-Dichlorophenoxybutyric acid (2,4-DB)

2,4-Dichlorophenoxypropionic acid (2,4-DP, Dichlorprop)

2,4,5-TP (Silvex)

2,4,5-Trichlorophenoxyacetic acid (2,4,5-T, Silvex, Fenoprop)

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3,5-Dichlorobenzoic acid  
Dicamba  
Dinoseb  
MCPA (2-Methyl-4-chlorophenoxyacetic acid)  
MCPP (Mecoprop, Methylchlorophenoxypropionic acid)  
Picloram

**Solids (Organic)**

BTEX - Solids [Soil] (068)  
CR-TM-031, CR-TM-086; 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  
Extractable Petroleum Hydrocarbons (EPH): C10-C19  
Extractable Petroleum Hydrocarbons (EPH): C10-C19 (sg)  
Extractable Petroleum Hydrocarbons (EPH): C19-C32  
Extractable Petroleum Hydrocarbons (EPH): C19-C32 (sg)

**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  
4,4'-DDD (p,p'-DDD)  
4,4'-DDE (p,p'-DDE)  
4,4'-DDT (p,p'-DDT)

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Aldrin  
alpha-Chlordane (a-Chlordane)  
alpha-Hexachlorocyclohexane (alpha-HCH, a-HCH, a-BHC, alpha-BHC)  
Atrazine  
Azinphos-methyl (Guthion)  
beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-HCH, beta-BHC)  
Bromacil  
Bromoxynil  
Captan  
Chlorothalonil (Daconil)  
Chlorpyrifos  
cis-Permethrin  
Cyanazine (Bladex)  
delta-Hexachlorocyclohexane (d-HCH, d-BHC, delta-HCH, delta-BHC)  
Diazinon  
Dichlorvos (DDVP)  
Diclofop-methyl (as free acid)  
Dieldrin  
Dimethoate  
Disulfoton (Disyston)  
Diuron (DCPMU)  
Endosulfan I (Endosulphan I, a-Endosulfan)  
Endosulfan II (b-Endosulfan)  
Endosulfan sulfate (Endosulphan sulphate)  
Endrin  
Endrin aldehyde  
Endrin ketone  
Fenchlorphos (Ronnell)  
Heptachlor  
Heptachlor epoxide  
Lindane (gamma-Hexachlorocyclohexane, g-HCH, g-BHC, gamma-HCH, gamma-BHC)  
Linuron  
Malathion  
Methoxychlor  
Methyl parathion (Parathion-methyl)  
Metolachlor  
Metribuzin  
Parathion (Ethyl parathion, Parathion (ethyl))  
Pentachloronitrobenzene (Quintozene)  
Phorate

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Prometon  
Prometryne  
Propiconazole  
Simazine  
Sulfotep  
Tebuthiuron  
Temephos (Abate)  
Terbufos  
trans-Chlordane (gamma-Chlordane)  
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 (4,6-Dinitro-o-cresol, DNOC)  
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

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2,6-Dichlorophenol  
2,6-Dimethylphenol  
3-Chlorophenol + 4-Chlorophenol  
3-Methylphenol + 4-Methylphenol (m-Cresol + p-Cresol)  
3,4-Dichlorophenol  
3,4-Dimethylphenol  
3,4,5-Trichlorophenol  
3,5-Dichlorophenol  
4-Chloro-3-methylphenol  
4-Hydroxyphenol (Hydroquinone)  
4-Nitrophenol  
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-Methylcholanthrene  
7,12-Dimethylbenz(a)anthracene  
Acenaphthene  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(g,h,i)perylene

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

**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

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1,3-Butadiene  
1,3-Dichlorobenzene  
1,3-Dichloropropane  
1,3,5-Trimethylbenzene  
1,4-dichlorobenzene  
2-Chlorotoluene  
2-Hexanone (Methyl butyl ketone, MBK)  
2,2-Dichloropropane  
4-Chlorotoluene (p-Chlorotoluene)  
4-Isopropyltoluene (p-Cymene)  
Acetone (2-Propanone)  
Acrylonitrile  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Butylbenzene (n-Butylbenzene)  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane (Ethyl chloride)  
Chloroethene (Vinyl chloride)  
Chloroform  
Chloromethane (Methyl chloride)  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromomethane  
Dichlorodifluoromethane (CFC-12, Freon 12)  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)  
Isopropylbenzene (Cumene)  
m,p-Xylene  
Methyl ethyl ketone  
Methyl isobutyl ketone (MIBK)  
Methyl methacrylate  
Methyl t-butyl ether

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n-Propylbenzene  
Naphthalene  
o-Xylene  
sec-Butylbenzene ((1-Methylpropyl)benzene)  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene

**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  
1,3,5-Trimethylbenzene  
1,4-Dichlorobenzene  
2-Chlorotoluene  
2-Hexanone (Methyl butyl ketone, MBK)  
2,2-Dichloropropane  
4-Chlorotoluene (p-Chlorotoluene)  
4-Isopropyltoluene (p-Cymene)  
Acetone (2-Propanone)  
Acrylonitrile  
Benzene

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Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Butylbenzene (n-Butylbenzene)  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane (Ethyl chloride)  
Chloroethene (Vinyl chloride)  
Chloroform  
Chloromethane (Methyl chloride)  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromomethane  
Dichlorodifluoromethane (CFC-12, Freon 12)  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)  
Isopropylbenzene (Cumene)  
m,p-Xylene  
Methyl ethyl ketone  
Methyl isobutyl ketone (MIBK)  
Methyl methacrylate  
Methyl t-butyl ether  
n-Propylbenzene  
Naphthalene  
o-Xylene  
sec-Butylbenzene ((1-Methylpropyl)benzene)  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane

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**Tissue (Inorganic)**

Metals - Tissue [Vegetation] (101)

CR-TM-088, CR-TM-113; 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

DISSOLVED OXYGEN METER (DO)

BOD (5 day)

Carbonaceous Biochemical Oxygen Demand (CBOD)

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**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (013)

CA-TM-004; SM 5220 D

COLORIMETRIC - DIGESTION

COD

**Water (Inorganic)**

Chloride - Water (002)

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

AUTOMATED TITRIMETRIC

Chloride

**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); BC MOE LABORATORY MANUAL SECTION C

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silver

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Sodium  
Strontium  
Tellurium  
Tellurium  
Thallium  
Thorium  
Thorium  
Tin  
Titanium  
Total Hardness (calculation)  
Uranium  
Vanadium  
Zinc  
Zirconium  
Zirconium

**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 SPECTROSCOPY (CVAFS) - 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

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**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); BC MOE LABORATORY MANUAL SECTION C

ICP/MS - DIGESTION

Aluminum

Antimony

Antimony

Arsenic

Arsenic

Barium

Beryllium

Beryllium

Bismuth

Boron

Cadmium

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Selenium

Silver

Silver

Sodium

Strontium

Thallium

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Tin  
Tin  
Titanium  
Total Hardness (calculation)  
Uranium  
Uranium  
Vanadium  
Zinc

**Water (Microbiology)**

Coliforms - Water (161)  
CA-TM-009; SM 9223  
ENZYME SUBSTRATE  
Escherichia coli  
Fecal (Thermotolerant) Coliforms  
Total Coliforms

**Water (Organic)**

Acid Herbicides - Water (169)  
CB-TM-001; DETERMINATION OF ACIDIC HERBICIDES IN WATER USING LC-MS/MS,. WATERS CORPORATION. (JUNE 2018)  
LC/MS/MS  
2,4-Dichlorophenoxyacetic acid  
2,4-Dichlorophenoxybutyric acid (2,4-DB)  
2,4-Dichlorophenoxypropionic acid (2,4-DP, Dichlorprop)  
2,4,5-Trichlorophenoxyacetic acid  
Acifluorfen  
Bentazon  
Chloramben  
Clopyralid  
Dicamba  
Dinoseb  
MCPA (2-Methyl-4-chlorophenoxyacetic acid)  
MCPB (4-(4-chloro-2-methylphenoxy)butanoic acid)  
MCPP (Mecoprop, Methylchlorophenoxypropionic acid)  
Picloram  
Triclopyr

**Water (Organic)**

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

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**Water (Organic)**

Diquat and Paraquat - Water (Burnaby) (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

Extractable Petroleum Hydrocarbons (EPH): C10-C19

Extractable Petroleum Hydrocarbons (EPH): C10-C19 (sg)

Extractable Petroleum Hydrocarbons (EPH): C19-C32

Extractable Petroleum Hydrocarbons (EPH): C19-C32 (sg)

**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 (Burnaby) (104)

CR-TM-116; modified from EPA 547

LC/MS/MS

Aminomethylphosphonic acid (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

Dichloroacetic acid

Monobromoacetic acid

Monochloroacetic acid

Trichloroacetic acid

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## 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

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)

A -BHC

a - Chlordane

Alachlor

Aldrin

Atrazine

Azinphos-methyl

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

Bromacil

Bromoxynil

Captan

Chlorothalonil (Daconil)

Chlorpyrifos ethyl

cis-Permethrin

Cyanazine

delta-Hexachlorocyclohexane (d-HCH, d-BHC, delta-HCH, delta-BHC)

Deltamethrin

Desethyl atrazine

Diazinon

Dichlorvos (DDVP)

Diclofop-methyl (as free acid)

Dieldrin

Dimethoate

Disulfoton (Disyston)

Diuron

Endosulfan I

Endosulfan II

Endosulfan sulfate (Endosulphan sulphate)

Endrin

Endrin aldehyde

Endrin ketone

Fenchlorphos (Ronnell)

g - Chlordane

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Heptachlor  
Heptachlor epoxide  
Lindane (gamma-BHC)  
Linuron  
Malathion  
Methyl parathion (Parathion-methyl)  
Metolachlor  
Metribuzin  
p,p' - DDT  
p,p' Methoxychlor  
Parathion (ethyl)  
Pentachloronitrobenzene (Quintozene)  
Phorate  
Prometon  
Prometryne  
Propiconazole  
Simazine  
Sulfotep  
Tebuthiuron  
Temephos (Abate)  
Terbufos  
trans-Permethrin  
Triallate  
Trifluralin

**Water (Organic)**

Perfluorinated Alkyl Substances (PFAS) - Water (Burnaby) (138)

CB-TM-004; modified from EPA 537

LC/MS/MS

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)  
Perfluorobutanoic acid (PFBA, Perfluorobutanoate)  
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)  
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)  
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)  
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)  
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)  
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)  
Perfluorononanoic acid (PFNA, Perfluorononanoate)  
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)  
Perfluorooctanesulfonamide (PFOSA)  
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)  
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)  
Perfluorotridecanoic acid (PFTTrDA, Perfluorotridecanoate)

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Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

**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-Hydroxyphenol (Catechol)

2-Methyl-4,6-dinitrophenol (4,6-Dinitro-o-cresol, DNOC)

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 (m-Cresol + p-Cresol)

3,4-Dichlorophenol

3,4-Dimethylphenol

3,4,5-Trichlorophenol

3,5-Dichlorophenol

4-Chloro-3-methylphenol

4-Hydroxyphenol (Hydroquinone)

4-Nitrophenol

Pentachlorophenol

Phenol

Resorcinol

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**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

Acridine

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(g,h,i)perylene

Benzo(j)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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**Water (Organic)**

Volatile Fatty Acids - Water (076)

CR-TM-060; SM 5560 D

GC/FID

Acetic acid

Butyric acid

Caproic Acid (Hexanoic 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

VH: C6-C10

**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

VH: C6-C10

Volatile Hydrocarbons (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

1,1,2,2-Tetrachloroethane

1,2-Dibromo-3-chloropropane (DBCP)

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,2,3-Trichlorobenzene

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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 (Methyl butyl ketone, MBK)  
2,2-Dichloropropane  
4-Chlorotoluene (p-Chlorotoluene)  
4-Isopropyltoluene (p-Cymene)  
4-Methyl-2-pentanol (MIBC)  
Acetone (2-Propanone)  
Acrylonitrile  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Butylbenzene (n-Butylbenzene)  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane (Ethyl chloride)  
Chloroform  
Chloromethane (Methyl chloride)  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromomethane  
Dichlorodifluoromethane (CFC-12, Freon 12)  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)  
Isopropylbenzene (Cumene)  
m,p-Xylene  
Methyl ethyl ketone

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Methyl isobutyl ketone (MIBK)  
Methyl methacrylate  
Methyl t-butyl ether  
n-Propylbenzene  
Naphthalene  
o-Xylene  
sec-Butylbenzene ((1-Methylpropyl)benzene)  
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 (Methyl butyl ketone, MBK)  
2,2-Dichloropropane

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4-Chlorotoluene (p-Chlorotoluene)  
4-Isopropyltoluene (p-Cymene)  
Acetone (2-Propanone)  
Acrylonitrile  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Butylbenzene (n-Butylbenzene)  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane (Ethyl chloride)  
Chloroform  
Chloromethane (Methyl chloride)  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromomethane  
Dichlorodifluoromethane (CFC-12, Freon 12)  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)  
Isopropylbenzene (Cumene)  
m,p-Xylene  
Methyl ethyl ketone  
Methyl isobutyl ketone (MIBK)  
Methyl methacrylate  
Methyl t-butyl ether  
n-Propylbenzene  
Naphthalene  
o-Xylene  
sec-Butylbenzene ((1-Methylpropyl)benzene)  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene

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trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl chloride

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