TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Legal Name of Accredited Laboratory:	**Bureau Veritas Canada (2019) Inc.**
Location Name or Operating as (if applicable):	Bureau Veritas (Calgary)
Contact Name:	Rhonda Reid
Address:	2021-41st Avenue, N.E. Calgary, Alberta T2E 6P2
Telephone:	403 735-2271
Fax:	403 291-9468
Website:	www.bvna.com
Email:	Calgary-QA-Staff-AB@bureauveritas.com

SCC File Number:	151043
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Biological Chemical/Physical
Program Specialty Area:	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Environmental Testing (ET)
Initial Accreditation:	2016-08-30
Most Recent Accreditation:	2024-12-03
Accreditation Valid to:	2028-08-30

SCC Group Accreditation:
This laboratory is a part of a Group Accreditation with the following facilities in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview.
15229 - Bureau Veritas - 6744 - 50 Street NW, Edmonton, AB, T6B 3M9
151039 - Bureau Veritas - Unit D, 675 Berry St., Winnipeg, MB, R3H 1A7

Testing is performed at the following locations:

Air testing: #1 2080-39th Avenue N.E. Calgary, AB. T2E 6P7
Inorganic, organic chemistry and water microbiology: 4000-19 Street N.E. Calgary, AB T2E 6P8 and #3-4 2080-39th Avenue N.E. Calgary, AB. T2E 6P7, and 2021 – 41 Avenue NE, Calgary, AB T2E 6P2
Food testing: #112, 3442-118 Ave S.E. Calgary, AB T2Z 3X1.

ANIMAL AND PLANTS (AGRICULTURE)

Agricultural products (except food and chemicals):

Foods and Edible Products (Human and Animal Consumption):

Microbiology

AOAC PTM 102003	BAX® System Real-Time Assay for *E. coli* O157:H7 Exact
Assurance GDS ® MPX Top 7 STEC Assay	BioControl Assurance GDS ® MPX Top 7 STEC
MFHPB-10	Isolation of Escherichia coli O157:H7/NM from foods and environmental surface samples (except for section 6, verotoxin confirmation)
MFHPB-18	Determination of Aerobic Colony Counts in Foods
MFHPB-20	Isolation and Identification of *Salmonella* from Food and Environmental Samples
MFHPB-22	Enumeration of Yeast and Moulds in Foods
MFHPB-23	Enumeration of Clostridium perfringens in foods
MFHPB-30	Isolation of *Listeria monocytogenes* and *Listeria* spp. from foods and environmental samples
MFHPB-33	Enumeration of Total Aerobic Bacteria in Food Products and Food Ingredients Using 3M™ Petrifilm™ Aerobic Count Plates
MFHPB-34	Enumeration of *Escherichia coli* and Coliforms in Food Products and Food Ingredients Using 3M™ Petrifilm™ *E. coli* Count Plates
MFLP-09	Enumeration of *Enterobacteriaceae* species in Food and Environmental Samples Using 3M™ Petrifilm™ *Enterobacteriaceae* Count Plates
MFLP-16	Detection of *Escherichia coli* O157:H7 in foods - Assurance GDS® for *E. coli* O157:H7 Tq Gene Detection System
MFLP-21	Enumeration of *Staphylococcus aureus* in Foods and Environmental Samples Using 3M™ Petrifilm™ *Staph.* Express Count (STX) Plates

MFLP-28	The Qualicon Bax® System Method for the Detection of *Listeria monocytogenes* in a Variety of Food.
MFLP-29	The BAX® System Method for the detection of Salmonella in foods and environmental surface samples.
MFLP-30	Detection of *Escherichia coli* O157:H7 in Select Foods using the BAX® System *E. coli* O157:H7 MP.
MFLP-36	Detection of *Salmonella* in Foods and Environmental Surface Samples-Assurance GDS® for *Salmonella* Tq Genetic Detection System
MFLP-42	Isolation and enumeration of the Bacillus cereus group in foods
MFLP-54	Detection of *Listeria monocytogenes* from selected foods using iQ-Check™ *Listeria monocytogenes* Real-Time PCR Test Kit
MFLP-74	Enumeration of *Listeria monocytogenes* in foods
MFLP-79	Detection of *Listeria* spp. in Environmental Surface Samples using the BAX®System Real-Time PCR Assay for *Listeria* genus
MLG4	Isolation and Identification of *Salmonella* from Meat, Poultry, Pasteurized Egg and Siluriformes (fish) Products and Carcass and environmental sponges
MLG41	Isolation and Identification of *Campylobacter jejuni/coli/lari* from Poultry Rinse, Sponge and Raw Product Samples

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Environmental:

Soil/Solid/Waste

AB SOP-00047	Free Liquid (Paint Filter Test) (Modified EPA 9095 B) Volumetric Free Liquid in Waste Samples

Water

AB SOP-00011	Silica (Reactive) by Discrete Autoanalyzer - Molybdate/ANSA Reduction Method (Modified EPA 370.1) Colorimetric Reactive Silica
AB SOP-00016	Chemical Oxygen Demand (Total and Dissolved) (Modified SM 5220 D) Colorimetric COD

AB SOP-00017	Biochemical Oxygen Demand (Modified SM 5210 B) D.O. Meter BOD (5 day) CBOD (5 day)
AB SOP-00023	Nitrite and Nitrate by Ion Chromatography (Modified SM 4110 B) Ion Chromatography Nitrate Nitrite
AB SOP-00024	Total Phosphorus by Konelab - Ascorbic Acid Reduction Method (Modified from SM 4500-P, A, B, F) Colorimetric Inorganic phosphorus Total Phosphorus
AB SOP-00026	Sulfate by Ion Chromatography (Modified SM 4110B] Ion Chromatography Sulfate
AB SOP-00032	The Determination of Residual Chlorine in Waters (Modified SM 4500 CL G) Colorimetric Free Chlorine Total Chlorine
AB SOP-00041	Ferrous and Ferric Iron in Water-Colorimetric Determination (Modified SM 3500-Fe A, B) Colorimetric Ferrous Iron
AB SOP-00058	Dissolved Oxygen- Modified Winkler Method (Modified SM 4500-O C) Titrimetric Dissolved Oxygen
AB SOP-00060	Naphthenic Acids in water by FTIR (Modified EPA 3510C R3/FTIR) IR Naphthenic Acids
AB SOP-00061	Total Suspended Solids, Total Fixed Solids, Total Volatile Solids (Modified SM 2540 D, E) Gravimetric Total Suspended Solids Total Suspended Solids Fixed Total Suspended Solids Volatile

AB SOP-00065	Total Dissolved Solids (TDS) [Modified SM 2540 C] Gravimetric Total Dissolved Solids
AB SOP-00070	Extraction and Analysis of Naphthenic Acids in Water (DCM Extraction) [Modified from Syncrude 1995 m] IR DCM Extraction Naphthenic Acids
AB SOP-00084	Mercury in Waters, Leachates and Liquids by Bromination and Cold Vapour [Modified BC MOE LABORATORY MANUAL SECTION C and EPA 245.7] Mercury
AB SOP-00087	Organic Carbon by Technicon - Persulfate UV Oxidation (Modified Methods Manual for Chemical Analysis of Water and Wastes, Method Code 119) Colorimetric Organic Carbon
AB SOP-00092	Oil and Grease Water Analysis by Gravimetric Hexane Extraction Method (Modified SM 5520 B, Gravimetric) Total Oil and Grease Total Petroleum Hydrocarbons (TPH)
CAL SOP-00040	Bromate, Chlorate, and Chlorite by IC – Conductivity detection (Modified SM 4110 D) Ion Chromatography Bromate Chlorate Chlorite
CAL SOP-00049	Color by Discrete Autoanalyzer (Modified SM 2120C) Spectrophotometric Apparent colour True Color
CAL SOP-00055	Glycolic and Lactic Acid by reversed-phase chromatography (Modified from Dionex ICE-AS6 DOC NO 34961) Ion Chromatography Glycolic Acid Lactic Acid
CAL SOP-00057	Iodide, Thiocyanate, and Thiosulfate by Ion Chromatography (Modified DIONEX, DOC NO 034035) Ion Chromatography Iodide Thiocyanate Thiosulfate

CAL SOP-00063	Organic Acids by reversed-phase chromatography (conductivity detection) (Modified DIONEX ICE-AS1 DOC NO 031181) Ion Chromatography Acetic Acid Butyric Acid Formic Acid Propionic Acid
CAL SOP-00065	Oxalic Acid by Ion Chromatography - Conductivity Detection (Modified from SM 4110B) Ion Chromatography Oxalic Acid
CAL SOP-00071	Sulfite by Ion Chromatography – conductivity detection (Modified SM 4110 B) Ion Chromatography - Conductivity Detector Sulfite
CAL SOP-00076	Total and Dissolved Inorganic Carbon by Automated Colourimetry (Modified AE 2411) Inorganic Carbon
CAL SOP-00081	Turbidity – Nephelometric Method (Modified SM 2130 B) Nephelometric Turbidity
CAL SOP-00099	Extraction and analysis of Resin and Fatty Acids in water by GCMS (Modified AE 129.0 and EPA 8270E) GC/MS 12,14-Dichlorodehydroabietic Acid — 12-Chlorodehydroabietic Acid 14-Chlorodehydroabietic Acid — 9,10-Dichlorostearic Acid (C18) Abietic Acid — Decanoic Acid C10 Dehydroabietic Acid — Docosanoic Acid C22 Dodecanoic Acid C12 — Eicosanoic Acid C20 Hexadecanoic Acid C16 — Isopimaric Acid Linoleic Acid C18:2 — Linoleic Acid C18:3 Neoabietic Acid — Octadecanoic Acid C18 Oleic Acid C18:1 — Palmitoleic Acid Palustric Acid Pimaric Acid — Sandaracopimaric Acid Tetradecanoic Acid (C14) — Undecanoic Acid (C11) Total of Resin Acids — Total of Fatty Acids
CAL SOP-00266	Determination of Free Cyanide (Modified EPA 9016) Colorimetric- Distillation Free cyanide

CAL SOP-00273	Determination of Chlorophyll and Pheophytin (Modified SM 10150 A, B) Chlorophyll A Chlorophyll B Chlorophyll C Pheophytin

Emissions (Air)

EMS SOP-00112	Fixed Gases - Air (Modified Method 3, Alberta Stack Sampling Code, 1995, Publication Number: REF.89 and EPA 3C) GC/TCD CO CO_2 N_2 O_2
EMS SOP-00114	Hydrocarbons – Air (Modified AENV18) GC/FID Total Hydrocarbons as Methane
*EMS SOP-00116	Total/Trace Reduced Sulfur - Air (Modified from AENV.TRS.P&P-1 and AENV.TRS.SGP-1) GC/PID Carbon disulfide Carbonyl sulfide Dimethyl disulfide Dimethyl sulfide Hydrogen sulphide Methyl mercaptan
EMS SOP-00122	Chlorine and Chlorine Dioxide – Air (Field) (Modified Alberta Environment Stack Code, 1995, Publication Number REF 89) Iodometric Determination Chlorine Chlorine Dioxide

Soil/Solid

*AB SOP-00002	Moisture Content in Soil (Modified CCME Petroleum Hydrocarbons in Soil - Tier 1 Method Section 13) Gravimetric % Moisture
*AB SOP-00003	Analysis of PAH in Water, Soil, Oil and Leachates by GC/MS

	(Modified EPA 8270E and EPA 3540C) - Soils and water 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acridine Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b, j) fluoranthene Benzo (g,h,i) perylene Benzo (k) fluoranthene Benzo(c)phenanthrene Benzo(e)pyrene Chrysene Dibenzo (a,h) anthracene Fluoranthene Fluorene Indeno (1,2,3 - cd) pyrene Naphthalene Perylene Phenanthrene Pyrene Quinoline
AB SOP-00004	Determination of Electrical Conductivity on Water and Soluble Soil Extract (Modified SM 2510B) - Soils and waters Conductivity Meter Conductivity
AB SOP-00005	Alkalinity Acidity Conductivity Fluoride and pH by PC-Titrate (Modified SM 2510 B, SM 4500 H+B, SM 2320 B, SM 4500-F C, SM 2310 B) - Soil & Waters PC Titrate Conductivity (25 °C) Alkalinity Fluoride pH Acidity
AB SOP-00006	pH on Water and Soluble Soil Extracts (Modified from SM 4500-H+ B) – Soils and Waters pH Meter pH
AB SOP-00007	Ammonia-Nitrogen by Automated Phenate colorimetric method (Modified SM4500-NH3 A&G) – Soils and Waters Colorimetric Ammonia Ammonia – Extraction
AB SOP-00008	TKN by Discrete Autoanalyzer (Modified EPA 351.1, EPA 351.2) - Soils Colorimetric Total Kjeldahl Nitrogen
AB SOP-00019	Calcium Carbonate Equivalence by pH (Modified SSMA 20.2)

	pH Meter Calcium Carbonate Equivalence (CCE)
AB SOP-00020	Chloride and Sulfate Analysis by Discrete Autoanalyzer (Modified SM 4500 Cl E & SM 4500 SO4 E) – Soils and Waters Chloride Sulfate
AB SOP-00022	Particle Size Distribution by Sieve Analysis (Modified ASTM D6913) Gravimetric/SIEVE Grain size Particle size by sieve (Special)
AB SOP-00025	Ortho-phosphate (Dissolved) by Automated Ascorbic Acid Reduction Method (Modified SM 4500-P, A and F) - Soils and Waters Colorimetric Auto Color Ortho-phosphate
AB SOP-00030	PSA by Hydrometer - Texture (Sand, Silt, Clay and gravel) Analysis (Modified SSMA 55.3) Hydrometer % clay % gravel % sand % Silt
AB SOP-00033	Preparation of Saturation and Water-Soil Ratio Samples [Modified from SSMA Method 15.2] Gravimetric % Saturation
*AB SOP-00039	Extraction and Analysis of BTEX/F1 and select Volatiles by HS/GC/MS/FID Water, Soil and Oil (BTEX: Modified EPA 8260D, GC/MS – HEADSPACE) (F1/PHC: Modified CCME Petroleum Hydrocarbons - Tier 1 Method and EPA5021A) – Soils and Waters (BTEX TCLP: EPA 1311) GC/MS - HEADSPACE 1,2,4-Trimethyl Benzene Benzene C5-C10 Ethylbenzene F1: C6-C10 Hexane m/p-xylene Methyl tert-butyl ether (MTBE) o-xylene Styrene Toluene 1,2-dichloroethane (soils only) Naphthalene (soils only)
*AB SOP-00040	Analysis of Extractable Hydrocarbons in Water and Soils by GC/FID (Modified Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil – Tier 1 Method)

	Modified EPA 1617)- Sheen C6-C50 Hydrocarbons — F2 (C10-C16 Hydrocarbons) F3 (C16-C34 Hydrocarbons) — F3A (C16-C22 Hydrocarbons) F3B (C22-C34 Hydrocarbons) — F4 (C34-C50 Hydrocarbons) Reached Baseline at C50 — F4G-SG (Heavy Hydrocarbons-Grav) Total Extractables C10 to C30 — Total Extractables C11 to C22 Total Extractables C23 to C60 — F4 HTG (>C34 – High Temp GC) Total Petroleum Hydrocarbon — Visible Sheen
AB SOP-00042	Metals on Liquids and Solids by ICPOES (Modified EPA 6010 D) - Soils and Waters ICP/OES Aluminum — Barium — Boron — Calcium Chromium — Iron — Lithium — Magnesium Manganese — Phosphorus — Potassium — Silicon Sodium — Strontium — Sulfur
*AB SOP-00043	Metals Analysis on Soils and Waters Using ICPMS (Modified EPA 6020 B) - Soils and Waters [TCLP: EPA 1311] ICP/MS Aluminum — Antimony — Arsenic — Barium (Soils and Leachates) Beryllium — Bismuth — Boron — Cadmium Calcium — Chromium — Cobalt — Copper Iron — Lead — Lithium — Magnesium Manganese — Mercury — Molybdenum — Nickel Potassium — Selenium — Silicon Silver — Sodium — Strontium — Sulphur Tellurium — Thallium — Tin — Titanium Tungsten — Uranium — Vanadium — Zinc Zirconium
AB SOP-00049	Particle Size Distribution by Hydrometer (Modified ASTM D7928) Hydrometer Particle Size Distribution
AB SOP-00050	Dry Bulk Density and Wet Bulk Density 9Modified McKeague and MSSMA Section 2.21) Gravimetric Bulk Density
AB SOP-00052	Bromide by Ion Chromatography - UV Detection (Modified from SM 4110 B) – Soils and Waters Ion Chromatography/UV Detector

	Bromide
AB SOP-00056	Preparation and Analysis VOC -Water and Soil by HS/GC/MS (Modified from EPA8260D and EPA5021A) (VOC TCLP: EPA 1311) - Soils and Waters GC/MS (Headspace) 1,1,1,2-Tetrachloroethane — 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane — 1,1,2-Trichloroethane 1,1-Dichloroethane — 1,1-dichloroethylene 1,2 dibromoethane — 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene — 1,2,4-Trimethylbenzene 1,2-dichlorobenzene — 1,2-dichloroethane 1,2-Dichloropropane — 1,3,5 Trichlorobenzene 1,3,5-Trimethylbenzene — 1,3-Dichlorobenzene 1,4-dichlorobenzene — Benzene Bromodichloromethane — Bromoform Bromomethane — Carbon Tetrachloride Chlorobenzene — Dibromochloromethane Chloroethane — Chloroform Chloromethane — cis-1,2-Dichloroethylene cis-1,3-Dichloropropene — Dichloromethane Ethylbenzene — m/p-xylene Methyl methacrylate — Methyl t-butyl ether o-xylene — Styrene Tetrachloroethylene — Toluene trans-1,2-Dichloroethylene — trans-1,3-Dichloropropene Trichloroethylene — Trichlorofluoromethane Vinyl Chloride
AB SOP-00062	Flashpoint by Small Scale Closed Cup Tester (SetaFlash) (Modified ASTM D3828) Seta Flash Closed Cup Flashpoint
AB SOP-00063	Hexavalent Chromium by Discrete Autoanalyzer (Modified SM 3500-Cr B and EPA 3060) – Soil and Water Colorimetric Hexavalent Chromium
AB SOP-00067	Elemental Sulfur (Modified Canadian Journal of Soil Science, 65, Pages 811-813, 1985) Colour-Extraction Elemental Sulphur
AB SOP-00080	Sulphide, Low level Sulfide (Modified SM 4500-S2D, A, F) – Soil and Water Colorimetric

	Sulphide
AB SOP-00088	Phenol Phenolics-Automated 4--Aminoantipyrine Colorimetry (Modified SSMA Chapter 40 & EPA 9066) – Soil and Water Colorimetric – Distillation Extraction Total Phenolics excluding para substituted phenols where the substitution is alkyl, aryl, nitro, benzoyl, nitroso, or aldehyde group
AB SOP-00091	NO_2 and TON by Gallery Plus (Modified SM 4500-NO3-H and 4500-NO2) – Soil and Water Nitrite Total Oxidized Nitrogen (TON)
AB SOP-00093	Total Nitrogen by Discrete Autoanalyzer (Modified SM 4500-N C) – Soil and Water Colorimetric Total Nitrogen (water) Total Nitrogen (Dissolved, water) Total Nitrogen (Soluble, soil) Total Nitrogen (Available, soil)
CAL SOP-00032	Spontaneous combustion (Self Heating) (Modified Recommendations on the Transport of Dangerous Goods: Manual of Tests and Criteria. Sixth Revised edition. United Nations.2015 sections 33.3.1.3 and 33.3.1.6) Combustion Spontaneous Combustion
CAL SOP-00054	Ethanolamines and DIPA by reversed-phase chromatography (amperometry) (Modified IC US6-0193-062014) – Soil and Water Diethanolamine (DEA) Methyldiethanolamine (MDEA) Monoethanolamine (MEA) Diisopropanolamine (DIPA)
CAL SOP-00093	Preparation and Analysis of Glycols and Sulfolane in Water, Soil and oil by GC-FID (Modified from EPA 8015D) – Soils Waters and Oil GC/FID – Extraction Diethylene Glycol — Ethylene Glycol Propylene Glycol — Sulfolane Tetraethylene Glycol — Triethylene Glycol
CAL SOP-00094	Herbicides (Modified EPA 8151A and EPA 8270E) – Soils and Waters GC/MS – Extraction 2,4,5-Trichlorophenoxyacetic acid (2,4,5-T) 2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP) 2,4-Dichlorophenoxyacetic acid (2,4-D) 2,4-Dichlorophenoxybutyric acid (2,4-DB)

	3,5-Dichlorobenzoic Acid Bentazon — Bromoxynil Chloramben — Dicamba Dichlorprop — Diclofop-methyl Dinoseb (DNBP) — MCPA MCPP — Pentachlorophenol Picloram
CAL SOP-00096	Extraction and Analysis of OG and TPH in Water and Soil by FTIR (Modified SM 5520 C m) – Soils and Waters IR – Extraction Oil and Grease Total Petroleum Hydrocarbons
CAL SOP-00104	Preparation and Analysis of Extended VOC in Water and Soils by HS/GC/MS (Modified EPA 8260D, EPA 5021A &VOC TCLP: EPA 1311) – Soils and Waters GC/MS – HS/Extraction 1,2,3-trichloropropane — 1,1-dichloropropene 1,2-dibromo-3-chloropropane — 1,3-dichloropropane 2,2-dichloropropane — 2-butanone (MEK) 2-chlorotoluene — 2-hexanone 2-nitropropane — 4-chlorotoluene 4-methyl-2-pentanone (MIBK) — Acetone Acetonitrile — Acrolein Acrylonitrile — Bromobenzene Bromochloromethane — Carbon disulphide Cyclohexane — Cyclohexanone Dibromomethane — Dichlorodifluoromethane Dicyclopentadiene — Ethyl acetate Ethyl ether — Ethyl methacrylate Hexachlorobutadiene — Hexane Iodomethane — Isopropylbenezene Naphthalene — n-Butylbenzene Nitrobenzene — n-Propylbenzene p-Isopropyltoluene — sec-Butylbenzene tert-Butylbenezene
CAL SOP-00149	Polychlorinated Biphenyls (PCB) (Modified EPA 8082A) – Soils, Waters and Oil GC/ECD – Extraction Aroclor 1016 — Aroclor 1221 — Aroclor 1232 — Aroclor 1242 Aroclor 1248 — Aroclor 1254 — Aroclor 1260 — Aroclor 1262 Aroclor 1268 — Total PCB

CAL SOP-00164	Semi Volatile Phenols (Modified EPA 8270E) – Soils and Waters GC/MS – Extraction 2,3,4,5-tetrachlorophenol — 2,3,4,6-tetrachlorophenol 2,3,4-trichlorophenol — 2,3,5,6-tetrachlorophenol 2,3,5-trichlorophenol — 2,3,6-trichlorophenol 2,3-dichlorophenol — 2,4,5-trichlorophenol 2,4,6-trichlorophenol — 2,4-dichlorophenol 2,4-dimethylphenol — 2,4-dinitrophenol 2,5-dichlorophenol — 2,6- dimethylphenol 2,6-dichlorophenol — 2-chlorophenol 2-methylphenol — 2-nitrophenol 3&4-chlorophenol — 3&4-methylphenol 3,4,5-trichlorophenol — 3,4-dichlorophenol 3,4-dimethylphenol — 3,5-dichlorophenol 4,6-dinitro-2-methylphenol — 4-chloro-3-methylphenol 4-nitrophenol — Pentachlorophenol Phenol
CAL SOP-00184	Aliphatic and Aromatic fractionation and analysis for >C10-C50 PHC (Modified from Atl RBCA m) – Soils and Waters GC/FID >C10-C12 Aliphatic — >C10-C12 Aromatic >C12-C16 Aliphatic — >C12-C16 Aromatic >C16-C21 Aliphatic — >C16-C21 Aromatic >C21-C34 Aliphatic — >C21-C34 Aromatic >C34 Aliphatic (Up to C50) — >C34 Aromatic (Up to C50)
CAL SOP-00239	BC Extractable Petroleum Hydrocarbons in Water and Soil by GC/FID (Modified BCMOE EPH S 12/16) – Soils and Waters GC/FID EPH: C10-C19 EPH: C19-C32 TEH: C10-C30 (Water Only)
*CAL SOP-00240	Fractionation for C6-C10 and BC method VPH by Headspace GC/FID/MS (Modified volatile HC in soils by GC/FID and EPA method 5021A, BC MELP VH; Atl. RBCA) – Soils and Waters GC/FID C6-C8 >C8-C10 C6-o-xylene Aromatic >C8-C10 *o*-xylene-C10
CAL SOP-00243/CAL	Carbon, Organic Carbon and Sulphur in Soils and Mining Ores by

SOP-00263	Combustions (Modified LECO Corporation Form No. 203-821-498, 203-821-165 and No. 203-821-463, Total Organic Carbon (TOC/FOC) in soil/sediment by combustion (PBM)) Elemental Analysis of Soil by Elementar Vario Cube EL (Modified Vario El Cube No AN-A-030609) IR Combustion Carbon Nitrogen (for Cube EL only) Organic Carbon Sulphur
CAL SOP-00250	Preparation and analysis of Alkylated PAH in soils and water (Modified SM 8270 E and ESTD-OR-20) – Soils and Waters GC/MS – Extraction 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acridine Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (g,h,i) perylene Benzo (k) fluoranthene Benzo (b&j) fluoranthene Benzo(c)phenanthrene Benzo(e)pyrene Biphenyl C1-Acenaphthene C1-Benzo(bjk)fluoranthene / Benzo[a]pyrene C1-Biphenyl C1-Benzo(a) anthracene/ Chrysene C1-Dibenzothiopene C2-Fluorene C2-Naphthalene C2-Phenanthrene/ anthracene C2- Fluoranthene / Pyrene C3-Benzo(a)anthracene / Chrysene C3-Dibenzothiophene C3-Fluorene C3-Naphthalene C3-Phenanthrene/ anthracene C3- Fluoranthene / Pyrene C4- Benzo(a)anthracene / Chrysene C4-Dibenzothiophene C4-Naphthalene C4-Phenanthrene/ anthracene Chrysene Dibenzo (a,h) anthracene Dibenzothiophene Fluoranthene Fluorene Indeno (1,2,3 - cd) pyrene Indeno (1,2,3-cd) fluoranthene Naphthalene Perylene Phenanthrene Pyrene Quinoline Retene
CAL SOP-00251	Extraction and analysis of low level Sulfolane in water and soil by GCMS (Modified EPA 8270E) GC/MSD – Extraction Sulfolane

CAL SOP-00264	Preparation and Analysis of Alcohol/Solvents (Water, soil, oil) by GCFID (Modified EPA 8015D) – Soils and Waters GC/FID – Extraction 2-Methylphenol 3- Methylphenol 4- Methylphenol Acetone (2-propanone) Ethanol Isobutanol Isopropanol * Methanol n-butanol Pyridine
CAL SOP-00265	ICPMS Analysis for Low Level Metals (Modified EPA SW846 6020B) – Soils and Waters ICP/MS Aluminum, Antimony, Arsenic, Barium Beryllium, Bismuth, Boron, Cadmium Calcium, Cesium, Chromium, Cobalt Copper, Iron, Lanthanum, Lead Lithium, Magnesium, Manganese, Mercury Molybdenum, Nickel, Phosphorus, Potassium Rubidium, Selenium, Silicon, Silver Sodium, Strontium, Sulphur, Tellurium Thallium, Thorium, Tin, Titanium Tungsten, Uranium, Vanadium, Yttrium Zinc, Zirconium
CAL SOP-00270	Determination of cyanide by automated colourimetry (Modified SM 4500-CN-,O) – Soil and Water Colorimetric- Distillation Cyanide SAD Cyanide WAD
CAL SOP-00275	Extraction and Analysis of Hydroxyphenols in Water and Soil by GCMS (Modified BC MOE Laboratory Manual and EPA SW 846 8270) – Water and Soil 2-Hydroxyphenol (Catechol) 3-Hydroxyphenol (Resorcinol) 4-Hydroxyphenol (Hydroquinone)
CAL SOP-00278	Extraction and Analysis of Pesticides in Soil and Water by GC/MS (Modified EPA SW-846 method 8270E, Method 3510C and Method 3540C) – Soil and Water Acephate (Soils only) 2,4'-Ddt+4,4'-Ddd 4,4'-Dde 4,4'-Ddt 4,4'-Methoxychlor A-Bhc A-Chlordane Alachlor Aldrin Aspon Atrazine Azinphos Ethyl Azinphos Methyl (Guthion) B-Bhc

	Benfluralin	Bromacil
	Bromophos	Bromophos-Ethyl
	Butylate	Captan
	Carbophenothion	Chlorbenside
	Chlorfenson(Ovex)	Chlorfenvinphos (E)
	Chlorfenvinphos(E/Z)	Chlormephos
	Chlorothalonil (Daconil)	Chlorpropham
	Chlorpyrifos	Chlorpyriphos-Methyl
	Chlorthiophos	Cyanazine (Bladex)
	Cyanophos	Dacthal
	D-Bhc	Demeton
	Demeton-O	Desethyl-Atrazine
	Desmetryn	Diallate [Z]
	Diallate(E/Z)	Diazinon
	Dichlobenil	Dichlofenthion
	Dichlofluanid	Dichloran
	Dichlorvox + Naled	Diclofop-Methyl
	Dicofol	Dicrotophos
	Dieldrin	Dimethoate
	Dioxathion	Diphenylamine
	Disulfoton (Di-Syston)	Endosulfan I
	Endosulfan II	Endosulfan Sulfate
	Endrin	Endrin Aldehyde
	Endrin Ketone	Epn
	Eptam	Ethalfluralin
	Ethion	Fenitrothion
	Fensulfothion	Fenthion
	Folpet	Fonofos
	G-Chlordane	Heptachlor
	Heptachlor Epoxide	Hexachlorobenzene
	Hexazinone	Iodofenphos
	Iprodione	Isofenphos
	Lindane (Bhc), Gamma	Malaoxon
	Malathion	Metalaxyl
	Methamidophos (Soils only)	Methidation
	Metolachlor	Metribuzin (Sencor)
	Mevinphos (Phosdrin)	Mirex
	Nitrofen	O,P'-Ddd
	O,P'-Dde	Omethoate
	Parathion	Parathion Methyl
	Pentachloronitrobenzene	Permethrin
	Phorate (Thimet)	Phosalone
	Phosmet	Phosphamidon (E)
	Phosphamidon (Z)	Pirimicarb
	Pirimiphos-Ethyl	Pirimiphos-Methyl
	Procymidone	Profenophos
	Profluralin	Prometryn
	Pronamide	Propazine
	Propiconazole	Pyrazophos
	Quinalophos	Ronnel
	Simazine	Stirophos
	Sulfotepp	Tecnazene

	Terbufos Terbutryne Tolylfluanid Triallate Vinclozolin	Terbuthylazine Tetradifon Triadimefon Trifluralin

Water (Microbiology)

AB SOP-00085	Determination of Iron Related and Sulfate Reducing Bacteria using BART™(Modified Dbi Env Tech Verification of the Irb Bart Tester for the Detection and Evaluation of Iron Bacteria in Water and Dbi Enviro Tech Verification of the Srb Bart Tester for the Detection and Verification of Sulphate Reducing Bacteria in Water) Iron Related Bacteria (IRB) Sulfate Reducing Bacteria (SRB)
AB SOP-00089	Total and Fecal Coliforms and E. Coli by defined substrate technique (Modified SM 9223 A, B) Most Probable Number (Colilert) *Escherichia coli* (*E. coli*) Total Coliforms Fecal (Thermotolerant) Coliforms
CAL SOP-00012	Heterotrophic Plate Count (Modified SM 9215 A, B and E) Heterotrophic Plate Count (HPC)

Number of Scope Listings: 107

Notes:

MFHPB: Microbiological Foods Health Protection Branch, Health Canada

MFLP: Microbiological Food Laboratory Procedure, Health Canada

MLG: Food Safety and Inspection Services Microbiology Laboratory Guidebook, U.S. Department of Agriculture

SM: Standard Methods for Examination of Water and Wastewater, American Public Health Association (APHA)

EPA: Environment Protection Agency

TCLP: toxicity characteristic leaching procedure

AB SOP: Internal test method (Alberta)

CAL SOP: Internal test method (Calgary)

CCME: Canadian Council of Ministers of the Environment

* These test methods can be performed on-site as per RG-Lab.

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc-ccn.ca.

Elias Rafoul
Vice-President, Accreditation Services
Publication on: 2024-12-13