

## 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

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T2E 6P2

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<b>SCC File Number:</b>	151043
<b>Accreditation Standard(s):</b>	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
<b>Fields of Testing:</b>	Biological Chemical/Physical
<b>Program Specialty Area:</b>	Environmental Testing (ET)
<b>Initial Accreditation:</b>	2016-08-30
<b>Most Recent Accreditation:</b>	2024-12-03
<b>Accreditation Valid to:</b>	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

**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
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**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 <sub>2</sub> N <sub>2</sub> O <sub>2</sub>
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 <table border="0" style="width: 100%;"> <tr> <td>1-Methylnaphthalene</td> <td>2-Methylnaphthalene</td> </tr> <tr> <td>Acenaphthene</td> <td>Acenaphthylene</td> </tr> <tr> <td>Acridine</td> <td>Anthracene</td> </tr> <tr> <td>Benzo (a) anthracene</td> <td>Benzo (a) pyrene</td> </tr> <tr> <td>Benzo (b, j) fluoranthene</td> <td>Benzo (g,h,i) perylene</td> </tr> <tr> <td>Benzo (k) fluoranthene</td> <td>Benzo(c)phenanthrene</td> </tr> <tr> <td>Benzo(e)pyrene</td> <td>Chrysene</td> </tr> </table>	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
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	<p>Dibenzo (a,h) anthracene          Fluorene          Naphthalene          Phenanthrene          Quinoline</p>	<p>Fluoranthene          Indeno (1,2,3 - cd) pyrene          Perylene          Pyrene</p>
AB SOP-00004	<p>Determination of Electrical Conductivity on Water and Soluble Soil Extract (Modified SM 2510B) - Soils and waters          Conductivity Meter          Conductivity</p>	
AB SOP-00005	<p>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 &amp; Waters          PC Titrate          Conductivity (25 °C)          Alkalinity          Fluoride          pH          Acidity</p>	
AB SOP-00006	<p>pH on Water and Soluble Soil Extracts (Modified from SM 4500-H+ B) – Soils and Waters          pH Meter          pH</p>	
AB SOP-00007	<p>Ammonia-Nitrogen by Automated Phenate colorimetric method (Modified SM4500-NH3 A&amp;G) – Soils and Waters          Colorimetric          Ammonia          Ammonia – Extraction</p>	
AB SOP-00008	<p>TKN by Discrete Autoanalyzer (Modified EPA 351.1, EPA 351.2) - Soils          Colorimetric          Total Kjeldahl Nitrogen</p>	
AB SOP-00019	<p>Calcium Carbonate Equivalence by pH (Modified SSMA 20.2)          pH Meter          Calcium Carbonate Equivalence (CCE)</p>	
AB SOP-00020	<p>Chloride and Sulfate Analysis by Discrete Autoanalyzer (Modified SM 4500 Cl E &amp; SM 4500 SO4 E) – Soils and Waters          Chloride          Sulfate</p>	

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 % sand % gravel % 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 C5-C10 F1: C6-C10 m/p-xylene o-xylene Toluene 1,2-dichloroethane (soils only) Naphthalene (soils only) Benzene Ethylbenzene Hexane Methyl tert-butyl ether (MTBE) Styrene
*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 F3 (C16-C34 Hydrocarbons) F3B (C22-C34 Hydrocarbons) Reached Baseline at C50 Total Extractables C10 to C30 F2 (C10-C16 Hydrocarbons) F3A (C16-C22 Hydrocarbons) F4 (C34-C50 Hydrocarbons) F4G-SG (Heavy Hydrocarbons-Grav) Total Extractables C11 to C22



	Total Extractables C23 to C60 Total Petroleum Hydrocarbon	F4 HTG (>C34 – High Temp GC) 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 (Modified 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	

	<p>1,1,2,2-Tetrachloroethane  1,1-Dichloroethane  1,2 dibromoethane  1,2,4-Trichlorobenzene  1,2-dichlorobenzene  1,2-Dichloropropane  1,3,5-Trimethylbenzene  1,4-dichlorobenzene  Bromodichloromethane  Bromomethane  Chlorobenzene  Chloroethane  Chloromethane  cis-1,3-Dichloropropene  Ethylbenzene  Methyl methacrylate  o-xylene  Tetrachloroethylene  trans-1,2-Dichloroethylene  Trichloroethylene  Vinyl Chloride</p>	<p>1,1,2-Trichloroethane  1,1-dichloroethylene  1,2,3-Trichlorobenzene  1,2,4-Trimethylbenzene  1,2-dichloroethane  1,3,5 Trichlorobenzene  1,3-Dichlorobenzene  Benzene  Bromoform  Carbon Tetrachloride  Dibromochloromethane  Chloroform  cis-1,2-Dichloroethylene  Dichloromethane  m/p-xylene  Methyl t-butyl ether  Styrene  Toluene  trans-1,3-Dichloropropene  Trichlorofluoromethane</p>
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	



CAL SOP-00096	<p>Extraction and Analysis of OG and TPH in Water and Soil by FTIR (Modified SM 5520 C m) – Soils and Waters</p> <p>IR – Extraction Oil and Grease Total Petroleum Hydrocarbons</p>																																						
CAL SOP-00104	<p>Preparation and Analysis of Extended VOC in Water and Soils by HS/GC/MS (Modified EPA 8260D, EPA 5021A &amp; VOC TCLP: EPA 1311) – Soils and Waters</p> <p>GC/MS – HS/Extraction</p> <table border="0"> <tr> <td>1,2,3-trichloropropane</td> <td>1,1-dichloropropane</td> </tr> <tr> <td>1,2-dibromo-3-chloropropane</td> <td>1,3-dichloropropane</td> </tr> <tr> <td>2,2-dichloropropane</td> <td>2-butanone (MEK)</td> </tr> <tr> <td>2-chlorotoluene</td> <td>2-hexanone</td> </tr> <tr> <td>2-nitropropane</td> <td>4-chlorotoluene</td> </tr> <tr> <td>4-methyl-2-pentanone (MIBK)</td> <td>Acetone</td> </tr> <tr> <td>Acetonitrile</td> <td>Acrolein</td> </tr> <tr> <td>Acrylonitrile</td> <td>Bromobenzene</td> </tr> <tr> <td>Bromochloromethane</td> <td>Carbon disulphide</td> </tr> <tr> <td>Cyclohexane</td> <td>Cyclohexanone</td> </tr> <tr> <td>Dibromomethane</td> <td>Dichlorodifluoromethane</td> </tr> <tr> <td>Dicyclopentadiene</td> <td>Ethyl acetate</td> </tr> <tr> <td>Ethyl ether</td> <td>Ethyl methacrylate</td> </tr> <tr> <td>Hexachlorobutadiene</td> <td>Hexane</td> </tr> <tr> <td>Iodomethane</td> <td>Isopropylbenzene</td> </tr> <tr> <td>Naphthalene</td> <td>n-Butylbenzene</td> </tr> <tr> <td>Nitrobenzene</td> <td>n-Propylbenzene</td> </tr> <tr> <td>p-Isopropyltoluene</td> <td>sec-Butylbenzene</td> </tr> <tr> <td>tert-Butylbenzene</td> <td></td> </tr> </table>	1,2,3-trichloropropane	1,1-dichloropropane	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	Isopropylbenzene	Naphthalene	n-Butylbenzene	Nitrobenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene	
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CAL SOP-00149	<p>Polychlorinated Biphenyls (PCB) (Modified EPA 8082A) – Soils, Waters and Oil</p> <p>GC/ECD – Extraction</p> <table border="0"> <tr> <td>Aroclor 1016</td> <td>Aroclor 1221</td> <td>Aroclor 1232</td> <td>Aroclor 1242</td> </tr> <tr> <td>Aroclor 1248</td> <td>Aroclor 1254</td> <td>Aroclor 1260</td> <td>Aroclor 1262</td> </tr> <tr> <td>Aroclor 1268</td> <td>Total PCB</td> <td></td> <td></td> </tr> </table>	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB																												
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CAL SOP-00164	<p>Semi Volatile Phenols (Modified EPA 8270E) – Soils and Waters</p> <p>GC/MS – Extraction</p> <table border="0"> <tr> <td>2,3,4,5-tetrachlorophenol</td> <td>2,3,4,6-tetrachlorophenol</td> </tr> <tr> <td>2,3,4-trichlorophenol</td> <td>2,3,5,6-tetrachlorophenol</td> </tr> <tr> <td>2,3,5-trichlorophenol</td> <td>2,3,6-trichlorophenol</td> </tr> <tr> <td>2,3-dichlorophenol</td> <td>2,4,5-trichlorophenol</td> </tr> <tr> <td>2,4,6-trichlorophenol</td> <td>2,4-dichlorophenol</td> </tr> </table>	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																												
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	<p>2,4-dimethylphenol                  2,5-dichlorophenol                  2,6-dichlorophenol                  2-methylphenol                  3&amp;4-chlorophenol                  3,4,5-trichlorophenol                  3,4-dimethylphenol                  4,6-dinitro-2-methylphenol                  4-nitrophenol                  Phenol</p>	<p>2,4-dinitrophenol                  2,6- dimethylphenol                  2-chlorophenol                  2-nitrophenol                  3&amp;4-methylphenol                  3,4-dichlorophenol                  3,5-dichlorophenol                  4-chloro-3-methylphenol                  Pentachlorophenol</p>										
CAL SOP-00184	<p>Aliphatic and Aromatic fractionation and analysis for &gt;C10-C50 PHC                  (Modified from Atl RBCA m) – Soils and Waters                  GC/FID</p> <table> <tr> <td>&gt;C10-C12 Aliphatic</td> <td>&gt;C10-C12 Aromatic</td> </tr> <tr> <td>&gt;C12-C16 Aliphatic</td> <td>&gt;C12-C16 Aromatic</td> </tr> <tr> <td>&gt;C16-C21 Aliphatic</td> <td>&gt;C16-C21 Aromatic</td> </tr> <tr> <td>&gt;C21-C34 Aliphatic</td> <td>&gt;C21-C34 Aromatic</td> </tr> <tr> <td>&gt;C34 Aliphatic (Up to C50)</td> <td>&gt;C34 Aromatic (Up to C50)</td> </tr> </table>		>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)
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>C21-C34 Aliphatic	>C21-C34 Aromatic											
>C34 Aliphatic (Up to C50)	>C34 Aromatic (Up to C50)											
CAL SOP-00239	<p>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)</p>											
*CAL SOP-00240	<p>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                  &gt;C8-C10                  C6-o-xylene                  Aromatic &gt;C8-C10                  o-xylene-C10</p>											
CAL SOP-00243/CAL SOP-00263	<p>Carbon, Organic Carbon and Sulphur in Soils and Mining Ores by                  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</p>											

	<p>Nitrogen (for Cube EL only)</p> <p>Organic Carbon</p> <p>Sulphur</p>																																																
CAL SOP-00250	<p>Preparation and analysis of Alkylated PAH in soils and water (Modified SM 8270 E and ESTD-OR-20) – Soils and Waters</p> <p>GC/MS – Extraction</p> <table border="0"> <tr> <td>1-Methylnaphthalene</td> <td>2-Methylnaphthalene</td> </tr> <tr> <td>Acenaphthene</td> <td>Acenaphthylene</td> </tr> <tr> <td>Acridine</td> <td>Anthracene</td> </tr> <tr> <td>Benzo (a) anthracene</td> <td>Benzo (a) pyrene</td> </tr> <tr> <td>Benzo (g,h,i) perylene</td> <td>Benzo (k) fluoranthene</td> </tr> <tr> <td>Benzo (b&amp;j) fluoranthene</td> <td>Benzo(c)phenanthrene</td> </tr> <tr> <td>Benzo(e)pyrene</td> <td>Biphenyl</td> </tr> <tr> <td>C1-Acenaphthene</td> <td></td> </tr> <tr> <td>C1-Benzo(bjk)fluoranthene / Benzo[a]pyrene</td> <td></td> </tr> <tr> <td>C1-Biphenyl</td> <td>C1-Benzo(a) anthracene/ Chrysene</td> </tr> <tr> <td>C1-Dibenzothiophene</td> <td>C2-Fluorene</td> </tr> <tr> <td>C2-Naphthalene</td> <td>C2-Phenanthrene/ anthracene</td> </tr> <tr> <td>C2- Fluoranthene / Pyrene</td> <td>C3-Benzo(a)anthracene / Chrysene</td> </tr> <tr> <td>C3-Dibenzothiophene</td> <td>C3-Fluorene</td> </tr> <tr> <td>C3-Naphthalene</td> <td>C3-Phenanthrene/ anthracene</td> </tr> <tr> <td>C3- Fluoranthene / Pyrene</td> <td>C4- Benzo(a)anthracene / Chrysene</td> </tr> <tr> <td>C4-Dibenzothiophene</td> <td>C4-Naphthalene</td> </tr> <tr> <td>C4-Phenanthrene/ anthracene</td> <td>Chrysene</td> </tr> <tr> <td>Dibenzo (a,h) anthracene</td> <td>Dibenzothiophene</td> </tr> <tr> <td>Fluoranthene</td> <td>Fluorene</td> </tr> <tr> <td>Indeno (1,2,3 - cd) pyrene</td> <td>Indeno (1,2,3-cd) fluoranthene</td> </tr> <tr> <td>Naphthalene</td> <td>Perylene</td> </tr> <tr> <td>Phenanthrene</td> <td>Pyrene</td> </tr> <tr> <td>Quinoline</td> <td>Retene</td> </tr> </table>	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-Dibenzothiophene	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
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CAL SOP-00251	<p>Extraction and analysis of low level Sulfolane in water and soil by GCMS (Modified EPA 8270E)</p> <p>GC/MSD – Extraction</p> <p>Sulfolane</p>																																																
CAL SOP-00264	<p>Preparation and Analysis of Alcohol/Solvents (Water, soil, oil) by GCFID (Modified EPA 8015D) – Soils and Waters</p> <p>GC/FID – Extraction</p> <table border="0"> <tr> <td>2-Methylphenol</td> <td>3- Methylphenol</td> </tr> <tr> <td>4- Methylphenol</td> <td>Acetone (2-propanone)</td> </tr> <tr> <td>Ethanol</td> <td>Isobutanol</td> </tr> <tr> <td>Isopropanol</td> <td>* Methanol</td> </tr> </table>	2-Methylphenol	3- Methylphenol	4- Methylphenol	Acetone (2-propanone)	Ethanol	Isobutanol	Isopropanol	* Methanol																																								
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	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          Chlorpyrifos-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	Ethalfuralin
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	Terbutylazine
Terbutryne	Tetradifon
Tolyfluanid	Triadimefon
Triallate	Trifluralin
Vinclozolin	



**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) <i>Escherichia coli</i> ( <i>E. coli</i> ) 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: 83

**Notes:**

**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.



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