

## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

Accredited Laboratory No. 97

**Legal Name of Accredited Laboratory:** Bureau Veritas Canada (2019) Inc.

Location Name or Operating as (if applicable): Formerly known as Maxxam Analytics

Contact Name: Salima Haniff

Address: 6740 Campobello Road, Mississauga, ON  
L5N 2L8

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<b>SCC File Number:</b>	15025
<b>Accreditation Standard(s):</b>	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories RG-TMDNRT
<b>Fields of Testing:</b>	Biological Chemical/Physical
<b>Program Specialty Area:</b>	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Environmental Testing (ET) Environmental Testing (ET – OSDWA) Test Method Development and Non-routine Testing (TMDNRT)
<b>Initial Accreditation:</b>	1992-10-06
<b>Most Recent Accreditation:</b>	2021-07-26
<b>Accreditation Valid to:</b>	2024-10-06



Food and Water Microbiology tests are performed at 6660 Campobello Road, Mississauga, ON L5N 2L9

Neutron Activation and Radiological analyses are conducted at 6790 Kitimat Road, Unit 4, Mississauga, Ontario L5N 5L9

Petroleum Refinery Products (including asphalt materials; petrochemicals; fuels and lubricants) are analyzed at the Bureau Veritas, PETROCHEMICAL LABORATORY  
4141 Sladeview Crescent Unit 10, Mississauga, ON.

OSDWA environmental testing is carried out under MOECC Licence 2312, 2314, 2315.

**SCC Group Accreditation:**

This laboratory is a part of a Group Accreditation with the following facility in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview.

- Bureau Veritas North America, Lake Zurich Laboratory, 95 Oakwood Rd., Lake Zurich, IL, 60047, Accredited Laboratory No. 876 (SCC File no. 151068).

**TEST METHOD DEVELOPMENT AND NON-ROUTINE TESTING**

Note: The laboratory accredited under this PSA has demonstrated that it meets ISO/IEC 17025 requirements for non-routine testing under the following product classification.

**Chemical Analyses**

**Activities under TMDNRT:**

1. Development and validation of new testing methodology for the screening and determination of chemical compounds in food, water and environmental samples.
2. Development of testing methods for the assessment and validation of commercially available test kits for the screening and determination of mycotoxins, allergens and histamines in food, water and environmental samples.
3. Development and validation of mass spectral techniques in food, water and environmental samples.

**Techniques under TMDNRT:**

1. GC, GC-MS, Triple Quad GC/MS and HRGC-HRMS
2. ICP-OES and ICP-MS
3. FIA
4. HPLC and LC-MS-MS
5. ELISA

**Microbiology Analysis**

**Activities under TMDNRT:**

1. Development and validation of analytical methods for detection, isolation, identification and characterization of microorganisms including bacteria, yeast and molds in food, water and environmental samples.
2. Development, evaluation and validation of new test kits including commercial test kits for the detection and/or enumeration of microorganisms in food, water and environmental samples.

3. Modification, improvement and validation of published or existing methods for detection and/or enumeration of microorganisms in food, water and environmental samples.
4. Analysis of non-routine analytical methods for MPN in food borne pathogens; including but not limited to *Salmonella*, *Shigella*, *Listeria* species or *Listeria monocytogenes*, *E. coli* O157:H7, *Campylobacter* species or *Campylobacter jejuni*, *Vibrio* species or *Vibrio parahaemolyticus*, *Vibrio vulnificus*, *Vibrio cholera*, *Enterobacter sakazakii*.

**Techniques under TMDNRT:**

1. Detection and/or enumeration of microorganisms by conventional and/or genetic microbiology techniques.
2. Identification/characterization of microorganisms by biochemical and/or immunological tests and/or protein profiling and/or genetic tests including PCR, RTPCR, molecular detection, VIDAS, and BAX.

**ANIMAL AND PLANTS (AGRICULTURE)**

**Foods and Edible Products (Human and Animal Consumption):**

**(Animal Tissue, Animal Derived Foods (Dairy, Honey, Eggs), Meat, Fish, Seafood, Fresh and Processed Fruit and Vegetables, Urine, Veal)**

CAM SOP-00332	Determination of Chlorinated Phenols (CPHs) in Soil, Water and Tissue Samples Using Selected Ion Monitoring (SIM) GCMS
CAM SOP 00408	ICP OES-Metals in Air, Waters, Foods, Swabs, Solids, Paint and Sludge
CAM SOP 00440	Nitrate, Nitrite and TON in Waters, Solids, Sludge and Food by FIA
CAM SOP 00447	ICPMS Metals in Waters, Foods, Solids, NHP, Biota
CAM SOP 00453	Mercury in Liquids, Soils, Swabs, Paint, Oil, NHP and Food by CVAA.
CAM SOP-00756	Perchlorate in Food by LCMSMS
BRL SOP-00408	PCB Congeners Analyses by HRGC/HRMS (modified EPA 1668A and 1668B) PCB Congeners (209 analytes)
BRL SOP-00410	Dioxins/Furans in Water, Soil (EPA 1613), Food and Biota (modified EPA 1613) by HRGC HRMS
BRL SOP-00423	PAH Compounds by HRGC/ HRMS /GCMSMS in Food Products, Sediment and Water (modified EPA 3540C, CARB 429) - For Food Products only
CAM SOP-00338	Per- and Polyfluoroalkyl Substances (PFAS) in Food by LC/MS/MS
CAM SOP 00408	ICP OES-Metals in Air, Waters, Foods, Swabs, Solids, Paint and Sludge
CAM SOP 00413	Measurement of pH in Water, Soils and Food Samples
CAM SOP 00423	The Determination of Brookfield Viscosity in Food
CAM SOP 00700	Determination of Cholesterol in Foods, Feeds and Oils by GC/FID

CAM SOP 00701	Determination of Fat in Meat by Gravimetry
CAM SOP 00702	Determination of Fatty Acids in Fats and Oils by GC/FID
CAM SOP 00703	Determination of Sodium Chloride in Food and Feed Products by Titration
CAM SOP 00705	Determination of Fat in Foods using Soxhlet Extraction
CAM SOP 00706	Determination of Fat in Foods using Acid Hydrolysis
CAM SOP 00707	Total Dietary Fibre Soluble Fibre and Insoluble Fibre in Foods by Gravimetry
CAM SOP 00708	Determination of Sugars in Foods by Refractive Index
CAM SOP 00709	Vitamin A and B-Carotene in Food by HPLC
CAM SOP 00710	The Determination of Fat by the Modified Mojonnier Method in Milk, Cream, Milkshake Mix and Confectionary Products
CAM SOP 00711	Determination of Protein in Foods, Feeds and Edible Oils by Combustion
CAM SOP 00712	Vitamin E in foods, feeds, milk, and other dairy products by Capillary Gas Chromatography
CAM SOP 00713	Determination of Ash in Food and Food Products by Gravimetry
CAM SOP 00714	Determination of Acidity in Food and Food Products by Titration
CAM SOP 00715	Determination of Moisture and Total Solids in Food and Food Products by Gravimetry
CAM SOP 00716	Determination of Starch in Food by Spectrophotometry
CAM SOP 00717	Determination of Peroxide Value of Oils and Fats by Titration
CAM SOP 00718	Sulfites in Food and in Seafood by Gravimetry
CAM SOP 00719	Determination of Vitamin D-3 (Cholecalciferol) in Food Products by HPLC
CAM SOP 00720	Determination of Free Fatty Acids in Foods
CAM SOP-00721	Determination of Crude Fibre in Petfood and Feed
CAM SOP 00722	The Determination of TBA Value in Foods by Spectrophotometry
CAM SOP 00724	Determination of Vitamin C in Complex Foodstuffs Using HPLC with Electrochemical Detector (Modified QFCL-001-01)
CAM SOP 00732	Determination of Water Activity in Food by Aqualab Water Activity Meter
CAM SOP 00734	Allergens in Foods and Swabs, Mycotoxin in Food using ELISA
CAM SOP 00739	Brix (Soluble Solids) in Foods, Juices and Honey by Refractometer
CAM SOP 00740	Sorbic and Benzoic Acids by HPLC in Food and Beverages
CAM SOP 00750	Determination of Total Folates (Vitamin B9) in Foods by Microbiological Assay
CAM SOP 00751	Determination of Niacin (Vitamin B3) in Food by Microbiological Assay
CAM SOP 00752	Determination of Pantothenic Acid (Vitamin B5) in Food by Microbiological Assay
CAM SOP 00754	Determination of Cobalamin (Vitamin B12) in Food by Microbiological Assay
CAM SOP 00755	Determination of Pyridoxine (Vitamin B6) in Foods by Microbiology Assay
CAM SOP 00762	Determination of Furans in Various Food Matrices by Headspace GC/MS Furan 2-Methylfuran 3-Methylfuran
CAM SOP 00874	Analysis of Melamine and Cyanuric Acid in Food by LC/MS/MS
CAM SOP 00882	Determination of Thiamine (Vitamin B1) in Foods by Fluorometry
CAM SOP 00884	Determination of Riboflavin (Vitamin B2) in Foods by Fluorometry
CAM SOP 00885	Analysis of Acrylamide in Food by LCMSMS

CAM SOP-00807	Per- and Polyfluoroalkyl Substances in (PFAS) in Biota by LC/MS/MS
CAM SOP-00901	Determination of Ethanol in Food and Beverages by Headspace GCMS
CAM SOP-00926	Determination of Amino Acids by HPLC
CAM SOP-00927	Determination of Choline in Foods by Enzymatic Method
CAM SOP-00932	Nitrite and Nitrate in Meat and Food Products by HPLC
CAM SOP-00964	Biotin (Vitamin B7) in Food by Microbiological Assay

**(Microbiological)**

AOAC 2014.05	Enumeration of Yeast and Moulds in Food using 3M™ Petrifilm™ Rapid Yeast and Mold Count (RYM) Plate
Assurance GDS® MPX Top7 STEC Assay	BioControl Assurance GDS® MPX Top 7 STEC
COR1SOP-00019	Enumeration of Coliforms, Faecal Coliforms and <i>E. Coli</i> in foods using the MPN Method (Modified MFHPB-19; option of standard 3-tube and 10-tube MPN method)
FDA BAM	Isolation and Identification of <i>Salmonella</i> in Food and Environmental Samples Following the FDA-BAM Method
MFHPB-10	Isolation of <i>Escherichia coli</i> O157:H7/NM from foods and environmental surface samples
MFHPB-18	Determination of the Aerobic Colony Count in Foods
MFHPB-19	Enumeration of Coliforms, Faecal Coliforms and of <i>E. coli</i> in Foods by using the MPN Method
MFHPB-20	Isolation and Identification of <i>Salmonella</i> from Foods and Environmental Samples
MFHPB-21	Enumeration of <i>Staphylococcus aureus</i> in Foods
MFHPB-22	Enumeration of Yeasts and Molds in Foods
MFHPB-23	Enumeration of <i>Clostridium perfringens</i> in Foods
MFHPB-29	Detection of <i>Listeria</i> spp. in foods and environmental samples by the VIDAS <i>Listeria</i> ™ Method
MFHPB-30	Isolation of <i>Listeria monocytogenes</i> and <i>Listeria</i> spp from foods and environmental samples
MFHPB-31	Determination of Coliforms in Foods Using Violet Red Bile Agar
MFHPB-33	Enumeration of Total Aerobic Bacteria in Food Products and Food Ingredients Using 3M™ Petrifilm™ Aerobic Count Plates
MFHPB-34	Enumeration of <i>E. coli</i> and Coliforms in Food Products and Food Ingredients Using 3M™ Petrifilm™ <i>E. coli</i> Count Plates
MFHPB-35	Enumeration of Coliforms in Food Products and Food Ingredients Using 3M™ Petrifilm™ Coliform Count Plates

MFLP-16	Detection of <i>Escherichia coli</i> O157:H7 in foods – Assurance GDS® for <i>E. coli</i> O157:H7 Tq Gene Detection System
MFLP-21	Enumeration of <i>Staphylococcus aureus</i> in Foods and Environmental Samples Using 3M™ Petrifilm™ Staph Express Count (STX) Plates
MFLP-25	Isolation and Identification of <i>Shigella</i> spp. from Food
MFLP-27	The Dupont Qualicon Bax® System Method for the Detection of Enterobacter Sakazakii in Selected Foods
MFLP-28	The Qualicon Bax® System Method for the Detection of <i>Listeria Monocytogenes</i> in a Variety of Food
MFLP-29	The Qualicon Bax® System Method for the Detection of <i>Salmonella</i> in Foods and Environmental Surface Samples
MFLP-30	Detection of <i>E. coli</i> O157:H7 in select foods using the Bax® system <i>E. coli</i> O157:H7 MP
MFLP-33	Detection of <i>Listeria monocytogenes</i> in foods by the VIDAS LMO 2™ method
MFLP-36	Detection of <i>Salmonella</i> in Food and Environmental Surface Samples- Assurance GDS ® for Salmonella Tq Genetic Detection System
MFLP-37	Part 1: Detection of <i>Halophilic Vibrio</i> Species in Seafood Part 2: Detection of <i>Vibrio Cholerae</i>
MFLP-38	Detection of <i>Salmonella</i> spp. from All Foods and Selected Environmental Surfaces using IQ-Check™ Salmonella Real-time PCR Test Kit
MFLP-39	Detection of <i>Listeria</i> spp. from Environmental Surfaces and heat processed RTE Meat and Poultry Using iQ-Check™ <i>Listeria</i> spp. Real-Time PCR Test Kit
MFLP-42	Isolation and Enumeration of <i>Bacillus cereus</i> group in Foods
MFLP-44	Determination of Aerobic and Anaerobic sporeformers
MFLP-46	Isolation of Thermophilic <i>Campylobacter</i> from Food
MFLP-49	Detection of <i>Salmonella</i> spp. in Food Products and Environmental Surfaces by the VIDAS® UP Salmonella (SPT) Method
MFLP-54	Detection of <i>Listeria monocytogenes</i> from selected foods using iQ-Check™ <i>Listeria monocytogenes</i> Real-Time PCR Test Kit
MFLP-59	Detection of <i>Listeria</i> spp. in food products and environmental surface samples with VIDAS® UP Listeria (LPT)
MFLP-65	Detection of <i>Staphylococcal enterotoxins</i> in food products using the Vidas® staph enterotoxin ii (set2), an elfa (enzyme linked fluorescent assay) technique
MFLP-72	Detection of <i>Listeria monocytogenes</i> in foods using the 3M™ Molecular Detection System Test Kit
MFLP-74	Enumeration of <i>Listeria monocytogenes</i> in Foods
MFLP-76	The DuPont Qualicon BAX® System real time method for the detection of <i>E. coli</i> O157:H7 in raw beef trim and raw ground beef
MFLP-77	Detection of <i>Listeria monocytogenes</i> and other <i>Listeria</i> spp. in food products and environmental samples by the VIDAS® Listeria species Xpress (LSX) method
MFLP-79	Detection of <i>Listeria</i> spp. in Environmental Surface Samples Using the BAX® System Real-Time PCR Assay for Listeria Genus

MFLP-86	Identification of vt1 and vt2 genes from <i>Verotoxigenic Escherichia coli</i> by polymerase chain reaction
MFLP-101	Detection of <i>Listeria</i> spp. in Environmental Surface Samples Using the 3M™ Molecular Detection System Test Kit Version 2
MFLP-9	Enumeration of <i>Enterobacteriaceae</i> Species in Food and Environmental Samples Using 3M™ Petrifilm™ Enterobacteriaceae Count Plates
MLG 4	Isolation and Identification of <i>Salmonella</i> from Meat, Poultry, Pasteurized egg and Siluriformes (Fish) products and Carcass and Environmental Sponges
MLG41	Isolation, Identification of <i>Campylobacter jejuni/coli/lari</i> from Poultry Rinse and Sponge and Raw Product Samples
MLG5C	Detection, Isolation and Identification of Top Seven Shiga Toxin-Producing <i>Escherichia coli</i> (STECs) from Meat Products and Carcass and Environmental Sponges

#### **Beverages, Spirits and Vinegar**

CAM SOP-00739	Brix (Soluble Solids) in Foods, Juices and Honey by Refractometer
CAM SOP-00740	Sorbic and Benzoic Acids by HPLC in Food and Beverages

#### **Dairy Products**

See also Animal Tissue, Animal Derived Foods (Dairy, Honey, Eggs), Meat, Fish, Seafood, Fresh and Processed Fruit and Vegetables, Urine, Veal

CAM SOP-00736	Determination of Udenatured Whey Protein Nitrogen in Non-Fat Dry Milk by Spectrophotometry
CAM SOP-00737	Determination of Solubility Index by Volumetric Analysis
CAM SOP-00738	Determination of Scorched Particles Using Water Disc Method

#### **Edible Fruits and Nuts**

See Fresh and Processed Fruit and Vegetables

#### **Edible Vegetables and Certain Roots and Tubers**

See Fresh and Processed Fruit and Vegetables

#### **Meat and Edible Meat Offal**

See Animal Tissue, Animal Derived Foods (Dairy, Honey, Eggs), Meat, Fish, Seafood, Fresh and Processed Fruit and Vegetables, Urine, Veal

#### **(Natural Health Products)**

CAM SOP-00408	Minerals by ICP in Natural Health Products Mg, Zn, Na, Ca, Cu, Fe, P, K, Mn, Mo, B, Ca, Cr, Se
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CAM SOP-00447	Heavy Metals by ICPMS in Natural Health Products																								
	<table border="0"> <tr> <td>Arsenic</td> <td>Barium</td> <td>Boron</td> <td>Cadmium</td> </tr> <tr> <td>Calcium</td> <td>Chromium</td> <td>Cobalt</td> <td>Copper</td> </tr> <tr> <td>Iron</td> <td>Lead</td> <td>Magnesium</td> <td>Manganese</td> </tr> <tr> <td>Mercury</td> <td>Nickel</td> <td>Phosphorus</td> <td>Potassium</td> </tr> <tr> <td>Rubidium</td> <td>Sodium</td> <td>Selenium</td> <td>Strontium</td> </tr> <tr> <td>Uranium</td> <td>Vanadium</td> <td>Zinc</td> <td></td> </tr> </table>	Arsenic	Barium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Phosphorus	Potassium	Rubidium	Sodium	Selenium	Strontium	Uranium	Vanadium	Zinc	
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CAM SOP-00453	Mercury by Cold Vapour in Natural Health Products																								
CAM SOP-00709	Vitamin A by HPLC in Natural Health Products																								
CAM SOP-00712	Vitamin E in Natural Health Products																								
CAM SOP-00719	Vitamin D in Natural Health Products																								
CAM SOP-00724	Vitamin C in Natural Health Products																								
CAM SOP-00750	Vitamin B9 by Microbiological Assay in Natural Health Products																								
CAM SOP-00751	Vitamin B3 by Microbiological Assay in Natural Health Products																								
CAM SOP-00752	Vitamin B5 by Microbiological Assay in Natural Health Products																								
CAM SOP-00754	Vitamin B12 by Microbiological Assay in Natural Health Products																								
CAM SOP-00755	Vitamin B6 by Microbiological Assay in Natural Health Products																								
CAM SOP-00758	Vitamin Bs by HPLC in Natural Health Products																								
CAM SOP-00766	Solvents by GC (FID detector) (VOC Class I and II) in Natural Health Products																								
CAM SOP-00882	Vitamin B1 by Microbiological Assay in Natural Health Products																								
CAM SOP-00884	Vitamin B2 by Microbiological Assay in Natural Health Products																								
CAM SOP-00926	Amino Acids in Natural Health Products																								
CAM SOP-00702	Fatty Acids in Natural Health Products																								

## **ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY**

### **Environmental:**

**Radio Chemistry (Soil, sediment, water, air, chemicals and chemical products, elastomers and protective coatings, medical products, non-metallic minerals and products, textiles and fibrous materials, wood products, foods and edible products)**

BQL SOP-00001	Neutron Activation																																
	Long Lived Isotopes of:																																
	<table border="0"> <tr> <td>Antimony</td> <td>Arsenic</td> <td>Barium</td> <td>Cerium</td> </tr> <tr> <td>Cesium</td> <td>Chromium</td> <td>Cobalt</td> <td>Europium</td> </tr> <tr> <td>Gold</td> <td>Hafnium</td> <td>Iron</td> <td>Lanthanum</td> </tr> <tr> <td>Lutetium</td> <td>Molybdenum</td> <td>Neodymium</td> <td>Nickel</td> </tr> <tr> <td>Rubidium</td> <td>Samarium</td> <td>Scandium</td> <td>Selenium</td> </tr> <tr> <td>Silver</td> <td>Sodium</td> <td>Tantalum</td> <td>Terbium</td> </tr> <tr> <td>Thorium</td> <td>Titanium</td> <td>Tungsten</td> <td>Uranium</td> </tr> <tr> <td>Ytterbium</td> <td>Zinc</td> <td>Zirconium</td> <td></td> </tr> </table>	Antimony	Arsenic	Barium	Cerium	Cesium	Chromium	Cobalt	Europium	Gold	Hafnium	Iron	Lanthanum	Lutetium	Molybdenum	Neodymium	Nickel	Rubidium	Samarium	Scandium	Selenium	Silver	Sodium	Tantalum	Terbium	Thorium	Titanium	Tungsten	Uranium	Ytterbium	Zinc	Zirconium	
Antimony	Arsenic	Barium	Cerium																														
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Silver	Sodium	Tantalum	Terbium																														
Thorium	Titanium	Tungsten	Uranium																														
Ytterbium	Zinc	Zirconium																															



BQL SOP-00002	Neutron Activation Platinum Group Elements with Nickel-Sulphide Fire Assay Pre-Concentration: Os                      Ir                      Pd                      Pt Rh                      Ru
BQL SOP-00004	Neutron Activation Short-Lived Isotopes of: Aluminum              Barium              Bromine              Calcium Chlorine              Dysprosium              Europium              Fluorine Indium              Iodine              Magnesium              Manganese Potassium              Samarium              Sodium              Strontium Titanium              Vanadium
BQL SOP-00005	Delayed Neutron Counting for Uranium and U-235

### Radio Chemistry (Soil, Sediment, Water, Air)

BQL SOP-00006	Alpha Spectrometry Polonium-210              Radium-224              Radium-226 ( <b>OSDWA</b> ) Thorium-228              Thorium-230              Thorium-232              Uranium-234 Uranium-235              Uranium-238
BQL SOP-00007	Gamma Spectrometry Natural decay chain isotopes of: Th-234              Th-230              Ra-226              Pb-210 U-235              Th-227              Ra-223              Ac-228 Ra-228 ( <b>OSDWA</b> )      Rn-222 ( <b>OSDWA</b> )      Pb-212              Pb-214 Bi-214              Tl-208 Synthetic isotopes of: Cs-137              Cs-134              I-131              Zn-65 Co-60              Mn-54              Am-241
BQL SOP-00008	Gas Flow Proportional Counting Gross Alpha Activity ( <b>OSDWA</b> )              Gross Beta Activity ( <b>OSDWA</b> ) Other radionuclides: Pb-210 ( <b>OSDWA</b> )              Ra-228( <b>OSDWA</b> ) Sr-90
BQL SOP-00009	Liquid Scintillation Counting Carbon-14 Tritium ( <b>OSDWA</b> )
BQL-SOP-00010	Electret Ion Chamber Measurement for Radon-222 In: Air

### (Chemistry - Soil, Sediment, Biota, Water, Air)

BRL SOP-00103	Metals by ICP/MS in Water, Soil, Air and Biota (Modified NIOSH 7300, 6009) Antimony              Arsenic              Barium              Beryllium Bismuth              Boron              Cadmium              Calcium Chromium              Cobalt              Copper              Iron Lead              Lithium              Magnesium              Manganese Molybdenum              Nickel              Phosphorus              Potassium
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	Selenium Strontium Tungsten	Silicon Thallium Vanadium	Silver Tin Zinc	Sodium Titanium Uranium
BRL SOP-00104	Mercury by CVAAS in Water, Soil, Air and Biota Mercury (Hg)			
BRL SOP-00105	Anions by IC in Water and Air Bromide Phosphate	Chloride Sulfate	Fluoride	Nitrite
BRL SOP-00106	Hexavalent Chromium by IC in Air Chromium VI			
BRL SOP-00107	Ammonia in Air by IC (Based on EPA CTM-027) Ammonia (as NH <sub>4</sub> <sup>+</sup> )			
BRL SOP-00108	Anions from Emission Sampling Trains by IC (Modified EPA 26/26A, EPA SW846 9057) Bromine Bromide Iodine			
	Chlorine Hydrogen Chloride	Fluorine Hydrogen Fluoride	Hydrogen Hydrogen Iodide	
BRL SOP-00109	Gravimetric Determination of PM Emission from Stationary Sources and Air Particulates of Filters, Gravimetric			
BRL SOP-00200	Semivolatiles Full Scan by GCMS in Water, Soil and Stack Gas Samples (Modified EPA SW846 8270C, 3510C, 3540C, 3640A, 0010) 1,2,4-Trichlorobenzene 1,3-Dichlorobenzene 1-Chloronaphthalene 2,3,4,5-Tetrachlorophenol 2,3,4-Trichlorophenol 2,3,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dimethylphenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Chlorophenol 2-Methylphenol (o-Cresol) 2-Nitrophenol 3+4 Methylphenol (m+p-Cresol) 4,6-Dinitro-2-methylphenol 4-Chloro-3-Methylphenol 4-Chlorophenyl Phenyl Ether 4-Nitrophenol Acenaphthene Aniline Benzo (a) anthracene Benzo (b) fluoranthene Benzo (k) fluoranthene			
	1,2-Dichlorobenzene 1,4-Dichlorobenzene 1-Methylnaphthalene 2,3,4,6-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol 2,4,5-Trichlorophenol 2,4-Dichlorophenol 2,4-Dinitrophenol 2,6-Dichlorophenol 2-Chloronaphthalene 2-Methylnaphthalene 2-Nitroaniline 3,3'-Dichlorobenzidine 3-Nitroaniline 4-Bromophenyl Phenyl Ether 4-Chloroaniline 4-Nitroaniline 5-Nitroacenphthene Acenaphthylene Anthracene Benzo (a) pyrene Benzo (g,h,i) perylene Benzoic Acid			

	<p>           Benzyl Alcohol            Biphenyl            Bis (2-chloroethyl) Ether            Bis (2-ethylhexyl) Phthalate            Carbozole            Dibenzo (a,h) anthracene            Diethyl Phthalate            Di-n-Butylphthalate            Diphenylether            Fluorene            Hexachlorobutadiene            Hexachloroethane            Indole            Naphthalene            N-Nitrosodimethylamine (NDMA)            N-Nitrosodiphenylamine            Perylene            Phenol         </p>	<p>           Benzyl Butyl Phthalate            Bis (2-chloroethoxy)Methane            Bis (2-chloroisopropyl) Ether            Camphene            Chrysene            Dibenzofuran            Dimethyl Phthalate            Di-n-Octylphthalate            Fluoranthene            Hexachlorobenzene            Hexachlorocyclopentadiene            Indeno (1,2,3-cd) pyrene            Isophorone            Nitrobenzene            N-Nitroso-di-N-Propylamine            Pentachlorophenol            Phenanthrene            Pyrene         </p>
BRL SOP-00201	<p>           PAHs by SIM GCMS in Water, Soil and Air (Modified CARB 429)            2-Methylnaphthalene            Acenaphthylene            Benzo (a) anthracene            Benzo (e) pyrene            Benzo (k) fluoranthene            Chrysene            Fluoranthene            Indeno (1,2,3 cd) pyrene            Perylene            Pyrene         </p>	<p>           Acenaphthene            Anthracene            Benzo (a) pyrene            Benzo (g,h,i) perylene            Benzo (b) fluoranthene            Dibenzo (a,h) anthracene            Fluorene            Naphthalene            Phenanthrene         </p>
BRL SOP-00304	<p>           Volatiles in Summa Canisters by GCMS (Modified EPA TO-14A AND TO-15)            1,1,1-Trichloroethane            1,1,2,2-Tetrachloroethane            1,1-Dichloroethane            1,2,3-Trimethylbenzene            1,2,4-Trimethylbenzene            1,2-Dichloroethane            1,3,5-Trimethylbenzene            1,3-Dichlorobenzene            1,4-Dioxane            Butane            2-Hexanone            4-Ethyltoluene            Acetone            Benzene         </p>	<p>           1,1,1,2-tetrachloroethane            1,1,2-Trichloroethane            1,1-Dichloroethene            1,2,4-Trichlorobenzene            1,2-Dichlorobezene            1,2-Dichloropropane            1,3-Butadiene            1,4-Dichlorobenzene            2,2,4-Trimethylpentane            2-Butanone (MEK)            2-Propanol            4-Methyl-2-Pentanone            Allyl Chloride            Benzyl chloride         </p>

	<p>Bis (2-Chloroethyl) Ether          Bromodichloromethane          Bromomethane          Carbon Tetrachloride          Chloroethane          Chloromethane          cis-1,3-Dichloropropene          Decane          Dibromomethane          Ethanol          Ethyl acrylate          Ethyl Bromide          Halocarbon 113          Heptane          Hexane          Methyl Cyclohexane          Methyl Tertbutyl Ether          m-xylene          Propene          Styrene          Tetrahydrofuran          trans 1,2-Dichloroethene          trans-1,2-Dichloropropene          Trichlorofluoromethane          Vinyl Bromide          Xylenes (total)</p>	<p>Bromobenzene          Bromoform          Carbon Disulfide          Chlorobenzene          Chloroform          cis-1,2-Dichloroethene          Cyclohexane          Dibromochloromethane          Dichlorodifluoromethane          Ethyl Acetate          Ethyl Benzene          Ethylene Dibromide          Halocarbon 114          Hexachlorobutadiene          Isopropyl benzene (Cumene)          Methyl Methacrylate          Methylene Chloride          o-xylene          p-xylene          Tetrachloroethene          Toluene          trans 1,3-Dichloropropene          Trichloroethene          Vinyl Acetate          Vinyl Chloride</p>
BRL SOP-00408	PCB Congener (209 Analytes) by HRGC HRMS in Water, Soil and Air (Modified EPA 1668A/B/C)	

**(Chemistry - Air PCDD/PCDF)**

BRL SOP-00404	Dioxins and Furans by HRGC HRMS in Air Samples (Modified EPA 40CFR PART 60 APP. A METHOD 23/23A)	
	1,2,3,4,6,7,8,9-C18-Dibenzofuran	1,2,3,4,6,7,8,9-C18-Dibenzo-p-dioxin
	1,2,3,4,6,7,8-C17-Dibenzofuran	1,2,3,4,6,7,8-C17-Dibenzo-p-dioxin
	1,2,3,4,7,8,9-C17-Dibenzofuran	1,2,3,4,7,8-C16-Dibenzofuran
	1,2,3,4,7,8-C16-Dibenzo-p-dioxin	1,2,3,6,7,8-C16-Dibenzofuran
	1,2,3,6,7,8-C16-Dibenzo-p-dioxin	1,2,3,7,8,9-C16-Dibenzofuran
	1,2,3,7,8,9-C16-Dibenzo-p-dioxin	1,2,3,7,8-C15-Dibenzofuran
	1,2,3,7,8-C15-Dibenzo-p-dioxin	2,3,4,6,7,8-C16-Dibenzofuran
	2,3,4,7,8-C15-Dibenzofuran	2,3,7,8-C14-Dibenzofuran
	2,3,7,8-C14-Dibenzo-p-dioxin	H6CDD
	H6CDF	H7CDD
	H7CDF	O8CDD
	O8CDF	P5CDD
	P5CDF	PCDD/PCDF
	T4CDD	T4CDF

**(Chemistry Air - Volatiles)**

BRL SOP-00302	VOST Analyses by GCMS in Air (Modified EPA SW846 5041 A, 8260C)	
	1,1,1-Trichloroethane	1,1,2-Tetrachloroethane
	1,1,2-Trichloroethane	1,1-Dichloroethane
	1,2,3-Trichloropropane	1,2-Dichlorobenzene
	1,2-Dichloroethane	1,2-Dichloropropane
	1,3-Dichlorobenzene	1,4-Difluorobenzene
	2-Butanone	2-Hexanone
	4-Methyl-2-Pentanone	Acetone
	Benzene	Bromodichloromethane
	Bromoform	Bromomethane
	Carbon Disulfide	Carbon Tetrachloride
	Chlorobenzene	Chlorodibromomethane
	Chloroethane	Chloroform
	Chloromethane	cis-1,2-Dichloroethylene
	cis-1,3-Dichloropropene	Dichlorodifluoromethane
	Ethyl Benzene	Ethylene Dibromide
	Iodomethane	Methylene Chloride
	Styrene	Tetrachloroethene
	Toluene	Trans-1,2-Dichloroethylene
	Trans-1,3-Dichloropropene	Trichloroethene
	Trichlorofluoromethane	Vinyl Chloride
	Xylenes	

**(Chemistry - Air Filter)**

CAM SOP-00408	ICP OES-Metals in Air, Waters, Foods, Swabs, Solids, Paint and Sludge			
	Antimony	Arsenic	Barium	Beryllium
	Bismuth	Boron	Cadmium	Calcium
	Chromium	Cobalt	Copper	Iron
	Lead	Lithium	Magnesium	Manganese
	Molybdenum	Nickel	Phosphorus	Potassium
	Selenium	Silicon	Silver	Sodium
	Strontium	Tin	Titanium	Tungsten
	Vanadium	Zinc		
CAM SOP-00942	Gravimetric Analysis of Filter-Collected Suspended Particulate Matter			

**(Chemistry – Oil, Paint)**

CAM SOP-00328	Polychlorinated Biphenyls in Oil Samples (PCBs) by GC/ECD			
	Only for: Oil			
	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242
	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262
	Aroclor-1268	Total PCB		
CAM SOP-00453	Mercury in Liquids, Soils, Swabs, Paint, Oil, NHP and Food by CVAA.			
CAM SOP 00408	ICP OES-Metals in Air, Waters, Foods, Swabs, Solids, Paint and Sludge			
	Aluminum	Arsenic	Barium	Beryllium
	Bismuth	Cadmium	Calcium	Chromium
	Cobalt	Copper	Lead	Magnesium
	Manganese	Nickel	Potassium	Sodium
	Strontium	Sulfur	Vanadium	Zinc
CAM SOP-00453	Mercury in Liquids, Soils, Swabs, Paint, Oil, NHP and Food by CVAA.			

**(Chemistry - Soil, Sediment, other environmental solids)**

BRL SOP-00012	Nitrosamines Analysis in water, soil by GC/Triple Quadrupole Mass Spectrometer			
	N-Nitrosodimethylamine		N-Nitrosoethylmethylamine	
	N-Nitrosodiethylamine		N-Nitroso-di-n-propylamine	
	N-Nitrosomorpholine		N-Nitrosopyrrolidine	
	N-Nitrosopiperidine		N-Nitroso-di-n-butylamine	
BRL SOP-00014	Determination of Organochlorine in Water and Soil by Gas Chromatography/Triple Quadrupole Mass Spectrometry (GC/MS/MS)			
	Hexachlorobenzene	a-BHC	g-BHC	b-BHC
	heptachlor	d-BHC	Aldrin	Oxychlorodane
	Heptachlor epoxide	g-Chlordane	op-DDE	Trans-Nonachlor
	a-Chlordane	a-Endosulfan	pp-DDE	Dieldrin
	op-DDD	Endrin	op-DDT	cis-Nonachlor
	pp-DDT	b-Endosulfan	pp-DDD	Endrin aldehyde
	Endosulfan sulfate	Methoxychlor	Endrin ketone	Mirex
BRL SOP-00015	Determination of Toxaphene in Water and Soil by Gas Chromatography/Triple Quadrupole Mass Spectrometry (GC/MS/MS)			

	Hx-Sed Parlar 40	Hp-Sed Parlar 44	Parlar 26 Parlar 50	Parlar 41 Parlar 62
	Total Toxaphene			
BRL SOP-00217	1,4 Dioxane in Water and Soil using Isotope Dilution by GCMS			
BRL SOP-00406	Dioxins and Furans by HRGC HRMS in Water and Soil (Modified EPA SW846 8290)			
	1,2,3,4,6,7,8,9-C18-Dibenzofuran		1,2,3,4,6,7,8,9-C18-Dibenzo-p-dioxin	
	1,2,3,4,6,7,8-C17-Dibenzofuran		1,2,3,4,6,7,8-C17-Dibenzo-p-dioxin	
	1,2,3,4,7,8,9-C17-Dibenzofuran		1,2,3,4,7,8-C16-Dibenzofuran	
	1,2,3,4,7,8-C16-Dibenzo-p-dioxin		1,2,3,6,7,8-C16-Dibenzofuran	
	1,2,3,6,7,8-C16-Dibenzo-p-dioxin		1,2,3,7,8,9-C16-Dibenzofuran	
	1,2,3,7,8,9-C16-Dibenzo-p-dioxin		1,2,3,7,8-C15-Dibenzofuran	
	1,2,3,7,8-C15-Dibenzo-p-dioxin		2,3,4,6,7,8-C16-Dibenzofuran	
	2,3,4,7,8-C15-Dibenzofuran		2,3,7,8-C14-Dibenzofuran	
	2,3,7,8-C14-Dibenzo-p-dioxin		H6CDD	
	H6CDF		H7CDD	
	H7CDF		O8CDD	
	O8CDF		P5CDD	
	P5CDF		PCDD	
	PCDF		T4CDD	
	T4CDF			
BRL SOP-00408	PCB Congener (209 Analytes) by HRGC HRMS in Water, Soil and Air (Modified EPA 1668A/B/C)			
CAM SOP-00460	Determination of Nitrogen in Soil/Sediment by Combustion			
CAM SOP 00307, CAM SOP 00317, CAM SOP 00309	Organochlorine Pesticides and PCBs in Solids, Water and Biological Materials by GC-ECD, Polychlorinated Biphenyls (PCBs) as Aroclors in Solid, Water, and Biological Samples by GC-ECD, and Neutral Chlorinated Hydrocarbons in Solid and Water by GC/ECD			
	1,2,3,4-Tetrachlorobenzene		1,2,3,5-Tetrachlorobenzene	
	1,2,4,5-Tetrachlorobenzene		1,2,4-Trichlorobenzene	
	1,3,5-Trichlorobenzene		2,4,5-Trichlorotoluene	
	a-BHC		a-Chlordane	
	Aldrin		Aroclor 1016	
	Aroclor 1221		Aroclor 1232	
	Aroclor 1242		Aroclor 1248	
	Aroclor 1254		Aroclor 1260	
	Aroclor 1262		Aroclor 1268	
	b-BHC		d-BHC	
	Dieldrin		Endosulfan I	
	Endosulfan II		Endosulfan Sulfate	
	Endrin		g-Chlordane	
	Heptachlor		Heptachlor Epoxide	
	Hexachlorobenzene		Hexachlorobutadiene	
	Hexachlorocyclopentadiene		Hexachloroethane	

	<p>Lindane Mirex o,p' DDE Octachlorostyrene p,p'-DDD p,p'-DDT Total PCB</p>	<p>Methoxychlor o,p' DDD o,p'-DDT Oxychlorthane p,p'-DDE Pentachlorobenzene Toxaphene</p>
CAM SOP 00310	The Determination of Formaldehyde in Water and Soil by HPLC	
CAM SOP 00449	Fluoride in Waters, Soil, Air, and Vegetation, by ISE	
CAM SOP 00463	Determination of Chloride in Water and Soil by MicroColourimetry	
CAM SOP 00464	Sulphate Determination in Water and Soils by Automated Turbidimetry	
CAM SOP-00226	<p>Volatile Organic Compounds by Purge and Trap GC/MS in Water, Leachates and Soil</p> <p>1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane 1,1-dichloroethane 1,2-Dibromoethane 1,2-Dichloroethane 1,3-Dichlorobenzene 2-Hexanone Benzene Bromoform Carbon Tetrachloride Chloroethane Chloromethane cis-1,3-Dichloropropene Dichlorodifluoromethane Ethylbenzene m/p-xylene Methyl Isobutyl Ketone o-xylene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl Chloride</p>	<p>1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethene 1,2-Dichlorobenzene 1,2-Dichloropropane 1,4-Dichlorobenzene Acetone Bromodichloromethane Bromomethane Chlorobenzene Chloroform cis-1,2-Dichloroethene Dibromochloromethane Dichloroethane Hexane Methyl Ethyl Ketone Methyl Tertbutyl Ether Styrene Toluene trans-1,3-Dichloropropane Trichlorofluoromethane</p>
CAM SOP-00228	<p>Volatile Organic Compounds by Headspace GC/MS in Water and Soil</p> <p>1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane 1,1-Dichloroethane 1,2-Dibromoethane 1,2-Dichloroethane 1,3-Dichlorobenzene 3-Dichlorobenzene Benzene</p>	<p>1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethene 1,2-Dichlorobenzene 1,2-Dichloropropane 2-Hexanone Acetone Bromodichloromethane</p>



	<p>Bromoform Carbon Tetrachloride Chloroethane Chloromethane cis-1,3-Dichloropropene Dichlorodifluoromethane Ethylbenzene m/p-xylene Methyl Isobutyl Ketone o-xylene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl Chloride</p>	<p>Bromomethane Chlorobenzene Chloroform cis-1,2-Dichloroethene Dibromochloromethane Dichloromethane Hexane Methyl Ethyl Ketone Methyl Tertbutyl Ether Styrene Toluene trans-1,3-Dichloropropene Trichlorofluoromethane</p>
CAM SOP-00230	<p>Volatile Organic Compounds (VOCs) and F1 Hydrocarbons in Solid and GC/MS/FID 1,1,1 Trichloroethane 1,1,2,2-Tetrachloroethane 1,1-Dichloroethane 1,2-Dichlorobenzene 1,2-Dichloropropane 1,4-Dichlorobenzene Benzene Bromoform Carbon Tetrachloride Chloroethane Chloromethane cis-1,3-Dichloropropene Dichlorodifluoromethane Ethylene dibromide Hexane Methyl isobutyl ketone Methylene chloride o-Xylene Styrene Toluene trans-1,3-Dichloropropene Trichlorofluoromethane</p>	<p>1,1,1,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethylene 1,2-Dichloroethane 1,3-Dichlorobenzene Acetone Bromodichloromethane Bromomethane Chlorobenzene Chloroform cis-1,2-Dichloroethylene Dibromochloromethane Ethylbenzene F1 (C6-C10) Methyl ethyl ketone Methyl t-butyl ether m-Xylene p-Xylene Tetrachloroethylene trans-1,2-Dichloroethylene Trichloroethylene</p>
CAM SOP-00301	<p>Determination of Semivolatile Organics (Acid / Base Neutral Extractables) in Solid and Aqueous Samples Using GC/MS operating under both the Full Scan and Selected Ion Monitoring (SIM) Modes 1,2,4-Trichlorobenzene 1,2-Diphenylhydrazine 1,4-Dichlorobenzene</p>	<p>1,2-Dichlorobenzene 1,3-Dichlorobenzene 1-Methylnaphthalene</p>

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-Dichloro Phenol
2,4-Dimethyl Phenol	2,4-Dinitrophenol
2,4-Dinitrotoluene	2,5-Dichlorophenol
2,6-Dichlorophenol	2,6-Dinitrotoluene
2-Chloronaphthalene	2-Chlorophenol
2-Methylnapthalene	2-Nitrophenol
3,3'-Dichlorobenzidine	3,4,5-Trichlorophenol
3,4-Dichlorophenol	3,5-Dichlorophenol
3-Chlorophenol	4,6-Dinitro-O-Cresol
4-Bromophenyl Phenyl Ether	4-Chloroaniline
4-Chlorophenol	4-Chlorophenyl Phenyl Ether
4-Nitrophenol	Acenaphthene
Acenaphthylene	Amytryne
Anthracene	Atrazine
Benzo (a) anthracene	Benzo (a) pyrene
Benzo (b) fluoranthene	Benzo (e) pyrene
Benzo (g,h,i) perylene	Benzo (k) fluoranthene
Biphenyl	Bis (2-Chloro Ethoxy) Methane
Bis (2-Chloro Ethyl) Ether	Bis(2-chloro-1methylethyl) ether/ Bis
(2-Chloro Isopropyl) Ether/ 2,2'-oxybis[1-chloro-propane]	
Bis (2-ethylhexyl) Phthaltate	Butyl Benzyl Phthalate
Chrysene	Cyanazine
Diazinon	Dibenzo (a,h) anthracene
Diethyl Phthalate	Dimethyl Phthalate
Di-n-Butylphthalate	Di-n-Octylphthalate
Fluoranthene	Fluorene
Hexachlorobenzene	Hexachlorobutadiene
Hexachlorocyclopentadiene	Hexachloroethane
Indeno (1,2,3 - cd) pyrene	Isophorone
m/p-cresol	Malathion
Metribuzin	Naphthalene
Nitrobenzene	N-Nitrosodimethylamine
N-Nitroso-Di-N Propyl Amine	
N-Nitroso-Diphenylamine/Diphenylamine	
o-Cresol	Parathion Methyl
Parathion Ethyl	
P-Chloro-M-Cresol	Pentachlorobenzene
Pentachloro-phenol	Phenanthrene
Phenol	Prometon
Prometryne	Propazine
Pyrene	Quinoline

	Simazine Terbutryn	Simetryn
CAM SOP-00315	Determination of CCME C6-C10 Hydrocarbons (F1) and BTEX in Soil and Water by Headspace-GC/MS/FID BTEX (Benzene, Toluene, Ethylbenzene, Xylenes) F1: C6-C10	
CAM SOP-00316	The Determination of CCME Extractable Petroleum Hydrocarbons (F2-4) in Water and Soil by GC-FID F2: C10-C16 F4: C34-C50	F3: C16-C34 F4G
CAM SOP-00318	Determination of Polynuclear Aromatic Hydrocarbons (PAHs) in Solid and Water Samples Using Selected Ion Monitoring (SIM) GCMS 1-methylnaphthalene Acenaphthene Anthracene Benzo (a) pyrene Benzo (e) pyrene Benzo (k) fluoranthene Chrysene Fluoranthene Indeno (1,2,3-cd) pyrene Perylene Pyrene	
	2-methylnaphthalene Acenaphthylene Benzo (a) anthracene Benzo (b,j) fluoranthene Benzo (g,h,i) perylene Biphenyl Dibenzo (a,h) anthracene Fluorene Naphthalene Phenanthrene	
CAM SOP-00320	The Determination of Nitroaromatics and Nitramines in Water and Soil Samples by HPLC 1,3,5-Trinitrobenzene 2,4,6-Trinitrotoluene 2,6-Dinitrotoluene 2-Nitrotoluene 3-Nitrotoluene 4-Nitrotoluene Methyl-2,4,6-trinitrophenylnitramine Nitroglycerin Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine Pentaerythritol tetranitrite (PETN)	
	1,3-Dinitrobenzene 2,4-Dinitrotoluene 2-Amino-4,6-dinitrotoluene 3,5-Dinitroaniline 4-Amino-2,6-dinitrotoluene Hexahydro-1,3,5-trinitro-1,3,5-triazine Nitrobenzene	
CAM SOP-00322	The Determination of Propylene Glycol, Ethylene Glycol and Diethylene Glycol in Liquids, Oils and solids by GC FID Diethylene Glycol Ethylene Glycol Propylene Glycol	
CAM SOP-00323	Total Petroleum Hydrocarbons Soxhlet Extraction Method for Soil Sample	
CAM SOP-00324	Oil and Grease Soxhlet Extraction Method for Soil Sample	
CAM SOP-00330	Determination of Phenoxy Acid Herbicides and related compounds in Aqueous and Solid Samples Using Selected Ion Monitoring (SIM) GC/MS	

	2,4,5-T 2,4-D 2,4-DP (dichlorprop) Acifluorfen Chloramben Dicamba MCPA Pentachlorophenol	2,4,5-TP 2,4-DB 3,5-dichlorobenzoic acid Bentazon DCPA Diacid Dinoseb (DNBP) MCPA Picloram	
CAM SOP-00332	Determination of Chlorinated Phenols in Soil and Water Using Selected Ion Monitoring (SIM) GC/MS		
	2,3,4,5-Tetrachlorophenol 2,3,4-Trichlorophenol 2,3,5-Trichlorophenol 2,3-Dichlorophenol 2,4,6-Trichlorophenol 2,4-Dimethylphenol 2,5-Dichlorophenol 2-Chlorophenol 3,4,5-Trichlorophenol 3,5-Dichlorophenol 4-Chloro-3-Methylphenol 4-Nitrophenol o-Cresol Phenol	2,3,4,6-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol 2,3,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-Dichlorophenol 2,4-Dinitrophenol 2,6-Dichlorophenol 2-Nitrophenol 3,4-Dichlorophenol 4,6-Dinitro-2-methylphenol 4-Chlorophenol m/p-Cresol Pentachlorophenol	
CAM SOP-00333	Determination of Selected Pesticides in Soil by LC/MS/MS		
	Atrazine Desethyl-atrazine(De-ethylated atrazine) Linuron Tebuthiuron	Bromacil Diuron Simazine	
CAM SOP-00408	ICP OES- Metals in Air, Waters, Foods, Swabs, Solids, Paint and Sludge		
	Aluminum Beryllium Calcium Iron Manganese Potassium Sodium Tin	Antimony Bismuth Chromium Lead Molybdenum Selenium Strontium Titanium	Arsenic Boron Cobalt Lithium Nickel Silicon Sulphur Vanadium
			Barium Cadmium Copper Magnesium Phosphorus Silver Thallium Zinc
CAM SOP-00413	Measurement of pH in Water, Soils and Food Samples		
CAM SOP-00414	Electrical Conductivity in Waters and Sludge, Soil Extracts		
CAM SOP-00432	Ignitability of Solids		
CAM SOP-00435	Anions in Soil and Water by Ion Chromatography		
	Bromide Nitrite (NO <sub>2</sub> )	Chloride PO <sub>4</sub>	Fluoride Sulfate Nitrate

CAM SOP-00436	Hexavalent Chromium by IC in Water and Soil
CAM SOP-00440	Nitrate, Nitrite and TON in Waters, Solids, Sludge and Food by FIA
CAM SOP-00441	Ammonia in Waters Biosolids and Soil Samples by Colourimetry
CAM SOP-00444	Analysis of Phenolics in Water and Soil colourimetric Automated 4-AAP
CAM SOP-00445	Determination of Moisture Content Solids by Gravimetry
CAM SOP-00447	ICPMS Metals in Waters, Foods, Solids, NHP and Biota Total and Dissolved Metals Aluminum                      Antimony                      Arsenic                      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
CAM SOP-00451	Determination of Perchlorate in Water and Soil by LC/MS/MS
CAM SOP-00457	Analysis of Cyanide in Liquids and Solids by Colourimetry Cyanide (SAD) Free Cyanide
CAM SOP-00461	Analysis of Ortho-Phosphate in Water and Soil by Micro-Colourimetry
CAM SOP-00467	Particle Size Distribution Sieve Analysis in Soil
CAM SOP-00468	TOC and TC in Solids by Furnace Combustion Total Carbon Total Organic Carbon
CAM SOP-00894	Determination of Perfluorinated Compounds in Water and Soil by LC-MS-MS Perfluorobutanoic acid (PFBA) Perfluoropentanoic acid (PFPeA) Perfluorohexanoic acid (PFHxA) Perfluoroheptanoic acid (PFHpA) Perfluorooctanoic acid (PFOA) Perfluorononanoic acid (PFNA) Perfluorodecanoic acid (PFDA) Perfluoroundecanoic acid (PFUnA) Perfluorododecanoic acid (PFDoA) Perfluorotridecanoic acid (PFTrDA) Perfluorotetradecanoic acid (PFTeDA) Perfluorobutanesulfonic acid (PFBS) Perfluoropentanesulfonic acid (PFPeS) Perfluorohexanesulfonic acid (PFHxS) Perfluoroheptanesulfonic acid (PFHpS) Perfluorooctanesulfonic acid (PFOS) Perfluorononanesulfonic acid (PFNS) Perfluorodecanesulfonic acid (PFDS)

Perfluorooctanesulfonamide (PFOSA) N-methylperfluorooctanesulfonamide (MeFOSA) N-ethylperfluorooctanesulfonamide (EtFOSA) N-methylperfluorooctanesulfonamidoethanol (MeFOSE) N-ethylperfluorooctanesulfonamidoethanol (EtFOSE) N-methylperfluorooctanesulfonamidoacetic acid (MeFOSAA) N-ethylperfluorooctanesulfonamidoacetic acid (EtFOSAA) 4:2 Fluorotelomersulfonic acid (4:2FTS) 6:2 Fluorotelomersulfonic acid (6:2FTS) 8:2 Fluorotelomersulfonic acid (8:2FTS) Hexafluoropropylene oxide dimer acid (HFPO-DA) 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS) 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
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**(Chemistry - Swabs)**

CAM SOP 00734	Allergens in Foods and Swabs, Mycotoxin in Food using ELISA			
CAM SOP-00309	Polychlorinated Biphenyls (PCBs) as Aroclors in Solid, Water, and Biological Samples by GC-ECD			
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242
	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262
	Aroclor 1268			
CAM SOP-00408	ICP OES- Metals in Air, Waters, Foods, Swabs, Solids, Paint and Sludge			
	Aluminum	Antimony	Arsenic	Barium
	Beryllium	Bismuth	Boron	Cadmium
	Calcium	Chromium	Cobalt	Copper
	Iron	Lead	Magnesium	Manganese
	Molybdenum	Nickel	Phosphorus	Potassium
	Selenium	Silver	Sodium	Strontium
	Sulphur	Tin	Titanium	Vanadium
	Zinc			

**Waste (Leachates)**

BRL SOP-00012	Nitrosamines Analysis in Water, Soil by GC Triple Quadrupole MS	
	N-Nitrosodimethylamine (NDMA)	
BRL SOP-00012	Nitrosamines Analysis in Water and Soil by GC Triple Quadrupole MS	
	N-Nitroso-di-n-butylamine	N-Nitroso-di-n-propylamine
	N-Nitrosodiethylamine	N-Nitrosodimethylamine
	N-Nitrosoethylmethylamine	N-Nitrosomorpholine
	N-Nitrosopiperidine	N-Nitrosopyrrolidine
BRL SOP-00410	Dioxin and Furans in Water, Leachates, Soil, Food and Biota by HRGC HRMS (EPA 1613)	
	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin
	1,2,3,4,6,7,8-Cl7-Dibenzofuran	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin
	1,2,3,4,7,8,9-Cl7-Dibenzofuran	1,2,3,4,7,8-Cl6-Dibenzofuran

	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin 1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin 1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin 1,2,3,7,8-Cl5-Dibenzo-p-dioxin 2,3,4,6,7,8-Cl6-Dibenzofuran 2,3,7,8-Cl4-Dibenzofuran H6CDD H7CDD O8CDD P5CDD PCDD T4CDD	1,2,3,6,7,8-Cl6-Dibenzofuran 1,2,3,7,8,9-Cl6-Dibenzofuran 1,2,3,7,8-Cl5-Dibenzofuran 2,3,4,6,7,8-Cl6-Dibenzofuran 2,3,4,7,8-Cl5-Dibenzofuran 2,3,7,8-Cl4-Dibenzo-p-dioxin H6CDF H7CDF O8CDF P5CDF PCDF T4CDF
CAM SOP-00226	Volatile Organic Compounds by Purge and Trap GC/MS in Water, Leachates and Soil 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane 1,1-dichloroethane 1,2-Dibromoethane 1,2-Dichloroethane 1,3-Dichlorobenzene 2-Hexanone Benzene Bromoform Carbon Tetrachloride Chloroethane Chloromethane cis-1,3-Dichloropropene Dichlorodifluoromethane Ethylbenzene m/p-xylene Methyl Isobutyl Ketone o-xylene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl Chloride	1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethene 1,2-Dichlorobenzene 1,2-Dichloropropane 1,4-Dichlorobenzene Acetone Bromodichloromethane Bromomethane Chlorobenzene Chloroform cis-1,2-Dichloroethene Dibromochloromethane Dichloroethane Hexane Methyl Ethyl Ketone Methyl Tertbutyl Ether Styrene Toluene trans-1,3-Dichloropropene Trichlorofluoromethane
CAM SOP-00228	Volatile Organic Compounds by Headspace GC/MS in Water, Leachates and Soil 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane 1,1-dichloroethane 1,2-Dibromoethane 1,2-Dichloroethane 1,3-Dichlorobenzene	1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethene 1,2-Dichlorobenzene 1,2-Dichloropropane 1,4-Dichlorobenzene

	<p>2-Hexanone Benzene Bromoform Carbon Tetrachloride Chloroethane Chloromethane cis-1,3-Dichloropropene Dichlorodifluoromethane Ethylbenzene m/p-xylene Methyl Isobutyl Ketone o-xylene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene</p>	<p>Acetone Bromodichloromethane Bromomethane Chlorobenzene Chloroform cis-1,2-Dichloroethene Dibromochloromethane Dichloroethane Hexane Methyl Ethyl Ketone Methyl Tertbutyl Ether Styrene Toluene trans-1,3-Dichloropropene Trichlorofluoromethane</p>
CAM SOP-00301	<p>Determination of Semivolatile Organics (Acid / Base Neutral Extractables) in Solid and Aqueous Samples Using GC/MS operating under both the Full Scan and Selected Ion Monitoring (SIM) Modes</p> <p>Anthracene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1-Methylnaphthalene 2,3,4,6-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol 2,3,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-Dichloro Phenol 2,4-Dinitrophenol 2,5-Dichlorophenol 2,6-Dinitrotoluene 2-Chlorophenol 2-Nitrophenol 3,4,5-Trichlorophenol 3,5-Dichlorophenol 4,6-Dinitro-O-Cresol 4-Chloroaniline 4-Chlorophenyl Phenyl Ether Acenaphthene Amytryne Benzo (a) anthracene Benzo (b) fluoranthene Benzo (g,h,i) perylene Biphenyl Bis (2-Chloro Ethyl) Ether</p>	<p>1,2,4-Trichlorobenzene 1,2-Diphenylhydrazine 1,4-Dichlorobenzene 2,3,4,5-Tetrachlorophenol 2,3,4-Trichlorophenol 2,3,5-Trichlorophenol 2,3-Dichlorophenol 2,4,6-Trichlorophenol 2,4-Dimethyl Phenol 2,4-Dinitrotoluene 2,6-Dichlorophenol 2-Chloronaphthalene 2-Methylnaphthalene 3,3'-Dichlorobenzidine 3,4-Dichlorophenol 3-Chlorophenol 4-Bromophenyl Phenyl Ether 4-Chlorophenol 4-Nitrophenol Acenaphthylene Atrazine Benzo (a) pyrene Benzo (e) pyrene Benzo (k) fluoranthene Bis (2-Chloro Ethoxy) Methane</p>



	<p>Bis(2-chloro-1methylethyl) ether/ Bis (2-Chloro Isopropyl) Ether/ 2,2'-oxybis[1-chloro-propane]</p> <p>Bis (2-ethylhexyl) Phthalate</p> <p>Chrysene</p> <p>Diazinon</p> <p>Diethyl Phthalate</p> <p>Di-n-Butylphthalate</p> <p>Fluoranthene</p> <p>Pentachlorobenzene</p> <p>Hexachlorobutadiene</p> <p>Hexachloroethane</p> <p>Isophorone</p> <p>Malathion</p> <p>Naphthalene</p> <p>N-Nitrosodimethylamine</p> <p>N-Nitroso-Diphenylamine/Diphenylamine</p> <p>Parathion Ethyl</p> <p>P-Chloro-M-Cresol</p> <p>Phenanthrene</p> <p>Prometon</p> <p>Propazine</p> <p>Quinoline</p> <p>Simetryn</p>	<p>Butyl Benzyl Phthalate</p> <p>Cyanazine</p> <p>Dibenzo (a,h) anthracene</p> <p>Dimethyl Phthalate</p> <p>Di-n-Octylphthalate</p> <p>Fluorene</p> <p>Hexachlorobenzene</p> <p>Hexachlorocyclopentadiene</p> <p>Indeno (1,2,3 - cd) pyrene</p> <p>m/p-cresol</p> <p>Metribuzin</p> <p>Nitrobenzene</p> <p>N-Nitroso-Di-N Propyl Amine</p> <p>o-Cresol</p> <p>Parathion Methyl</p> <p>Pentachloro-phenol</p> <p>Phenol</p> <p>Prometryne</p> <p>Pyrene</p> <p>Simazine</p> <p>Terbutryn</p>
CAM SOP-00305	Analysis of Glyphosate in Water, Leachates and Soil by HPLC	
CAM SOP-00306	<p>Analysis of Diuron, Guthion, and Temephos in Water by HPLC</p> <p>Diuron</p> <p>Guthion (azinphos-methyl)</p> <p>Temephos</p>	
CAM SOP-00307, CAM SOP-00309	<p>Organochlorine Pesticides and PCBs in Solids, Water and Biological Materials by GC-ECD, Polychlorinated Biphenyls (PCBs) as Aroclors in Solid, Water, and Biological Samples by GC-ECD</p> <p>1,2,3,4-Tetrachlorobenzene</p> <p>1,2,4,5-Tetrachlorobenzene</p> <p>1,3,5-Trichlorobenzene</p> <p>a-BHC</p> <p>Aldrin</p> <p>Aroclor 1221</p> <p>Aroclor 1242</p> <p>Aroclor 1254</p> <p>Aroclor 1262</p> <p>b-BHC</p> <p>Dieldrin</p> <p>Endosulfan II</p> <p>Endrin</p>	
		<p>1,2,3,5-Tetrachlorobenzene</p> <p>1,2,4-Trichlorobenzene</p> <p>2,4,5-Trichlorotoluene</p> <p>a-Chlordane</p> <p>Aroclor 1016</p> <p>Aroclor 1232</p> <p>Aroclor 1248</p> <p>Aroclor 1260</p> <p>Aroclor 1268</p> <p>d-BHC</p> <p>Endosulfan I</p> <p>Endosulfan Sulfate</p> <p>g-Chlordane</p>

	<p>Heptachlor Hexachlorobenzene Hexachlorocyclopentadiene Lindane Mirex o,p' DDE Octachlorostyrene p,p'-DDD p,p'-DDT Total PCB</p>	<p>Heptachlor Epoxide Hexachlorobutadiene Hexachloroethane Methoxychlor o,p' DDD o,p'-DDT Oxychlorane p,p'-DDE Pentachlorobenzene</p>
CAM SOP-00315	<p>Determination of CCME C6-C10 Hydrocarbons (F1) and BTEX in Soil and Water by Headspace-GC/MS/FID BTEX (Benzene, Toluene, Ethylbenzene, Xylenes) F1: C6-C10</p>	
CAM SOP-00316	<p>The Determination of CCME Extractable Petroleum Hydrocarbons (F2-4) in Water and Soil by GC-FID F2: C10-C16 F3: C16-C34 F4: C34-C50 F4G</p>	
CAM SOP-00318	<p>Determination of Polynuclear Aromatic Hydrocarbons (PAHs) in Solid and Water Samples Using Selected Ion Monitoring (SIM) GCMS 1-methylnaphthalene Acenaphthene Anthracene Benzo (a) pyrene Benzo (e) pyrene Benzo (k) fluoranthene Chrysene Fluoranthene Indeno (1,2,3-cd) pyrene Perylene Pyrene</p> <p>2-methylnaphthalene Acenaphthylene Benzo (a) anthracene Benzo (b,j) fluoranthene Benzo (g,h,i) perylene Biphenyl Dibenzo (a,h) anthracene Fluorene Naphthalene Phenanthrene</p>	
CAM SOP-00327	<p>Analysis of Diquat and Paraquat in Water by HPLC-UV Detector Using Aqueous Ionic Mobile Phase Diquat Paraquat</p>	
CAM SOP-00411	<p>Nitrotriacetic Acid (NTA) in Water by UV-Vis Spectroscopy</p>	
CAM SOP-00440	<p>Nitrate, Nitrite and TON in Waters, Solids, Sludge and Food by FIA Nitrate Nitrite</p>	
CAM SOP-00447	<p>ICPMS Metals in Waters, Foods, Solids, NHP and Biota Aluminum      Arsenic      Barium      Boron Cadmium      Calcium      Chromium      Copper Iron      Lead      Magnesium      Manganese Mercury      Nickel      Phosphorus      Potassium</p>	

	Selenium Zinc	Sodium	Tin	Titanium
CAM SOP-00449	Fluoride in Waters, Soil, Air and Vegetation by ISE.			
CAM SOP-00457	Analysis of Cyanide in Liquids and Solids by Colourimetry Cyanide (SAD) Free Cyanide			

### Water (Inorganic)

CAM SOP 00463 <b>(OSDWA)</b>	Determination of Chloride in Water and Soil by MicroColourimetry			
CAM SOP 00464 <b>(OSDWA)</b>	Sulphate Determination in Water and Soils by Automated Turbidimetry			
CAM SOP-00326 <b>(OSDWA)</b>	Determination of Total Oil and Grease, Petroleum Hydrocarbons (heavy), Mineral Oil and Grease and Animal and Vegetable Oil and Grease in Water by Gravimetry Mineral, Animal and Vegetable Oil and Grease Petroleum Hydrocarbons (Heavy - F4G) Total Oil and Grease			
CAM SOP-00407	Determination of Phosphorus (all forms) in Waters by colourimetry (FIA) Hydrolysed phosphorus Ortho-phosphate <b>(OSDWA)</b> Total Phosphorus <b>(OSDWA)</b>			
CAM SOP-00408	ICP OES-Metals in Air, Waters, Foods, Swabs, Solids, Paint and Sludge Aluminum                      Antimony                      Arsenic                      Barium Beryllium                      Bismuth                      Boron                      Cadmium Calcium                      Chromium                      Cobalt                      Copper Iron                      Lead                      Magnesium                      Manganese Molybdenum                      Nickel                      Phosphorus                      Potassium Selenium                      Silicon                      Silver                      Sodium Strontium                      Sulfur                      Thallium                      Tin Uranium                      Vanadium                      Zinc                      Zirconium			
CAM SOP-00409	Colourimetric Determination of Ferrous Iron in Water			
CAM SOP-00410 <b>(OSDWA)</b>	Colourimetric Determination of Tannin and Lignin in liquid samples			
CAM SOP-00411 <b>(OSDWA)</b>	Nitrilotriacetic Acid (NTA) in Water by UV-Vis Spectroscopy			
CAM SOP-00412 <b>(OSDWA)</b>	Spectrophotometric Determination of Colour in Water Samples Colour			
CAM SOP-00413 <b>(OSDWA)</b>	Measurement of pH in Water, Soils and Food Samples			
CAM SOP-00414 <b>(OSDWA)</b>	Electrical Conductivity in Waters and Sludge, Soil Extracts			
CAM SOP-00416 <b>(OSDWA)</b>	COD in Water by Colourimetry COD (Chemical Oxygen Demand)			

CAM SOP-00417 <b>(OSDWA)</b>	Turbidity in Water by Nephelometry
CAM SOP-00425	Determination of Free or Total Chlorine in Water by HACH colourimetry Free chlorine Total chlorine
CAM SOP-00427	Determination of Biochemical Oxygen Demand in Waters by D.O. Meter BOD (5 day) <b>(OSDWA)</b> CBOD (5 day) <b>(OSDWA)</b> Dissolved Oxygen
CAM SOP-00428 <b>(OSDWA)</b>	Determination of Solids in Water, Solid and Semisolid (biosolid, sludge) Samples by Gravimetry Fixed and Volatile Solids Total Dissolved Solids Total Suspended Solids
CAM SOP-00431 <b>(OSDWA)</b>	Organic Acids in Water by Ion Chromatography Acetic Acid          Butyric Acid          Formic Acid          Propionic Acid
CAM SOP-00433 <b>(OSDWA)</b>	Determination of Inorganic Carbon in Water by IR Detection DIC - Dissolved Inorganic Carbon TIC-Total Inorganic Carbon
CAM SOP-00435 <b>(OSDWA)</b>	Anions in Soil and Water by Ion Chromatography Bromide Chloride Sulfate
CAM SOP-00436 <b>(OSDWA)</b>	Hexavalent Chromium by IC in Water and Soil Hexavalent Chromium (CrVI)
CAM SOP-00440 <b>(OSDWA)</b>	Nitrite, Nitrate and TON in Waters, Solids, Sludge and Food by FIA Nitrate plus Nitrite Nitrite
CAM SOP-00441 <b>(OSDWA)</b>	Ammonia in Waters Biosolids and Soil Samples by Colourimetry
CAM SOP-00444 <b>(OSDWA)</b>	Analysis of Phenolics in Water and Soil-colourimetric Automated 4-AAP Total Phenolics
CAM SOP-00446 <b>(OSDWA)</b>	Organic Carbon Analysis in Waters by Combustion and IR Detection DOC – Dissolved Organic Carbon TOC – Total Organic Carbon
CAM SOP-00447 <b>(OSDWA)</b>	ICPMS Metals in Waters, Foods, Solids, NHP and Biota Aluminum          Antimony          Arsenic          Barium Beryllium          Bismuth          Boron          Cadmium Calcium          Chromium          Cobalt          Copper Iron          Lead          Lithium          Magnesium Manganese          Molybdenum          Nickel          Phosphorus Potassium          Selenium          Silicon          Silver Sodium          Strontium          Tellurium          Thallium Thorium          Tin          Titanium          Tungsten

	Uranium	Vanadium	Zinc	Zirconium
CAM SOP-00448 <b>(OSDWA)</b>	Alkalinity in Waters by PC-Titrate. Alkalinity (pH 4.5)			
CAM SOP-00449 <b>(OSDWA)</b>	Fluoride in Waters, Soil, Air and Vegetation by ISE			
CAM SOP-00451 <b>(OSDWA)</b>	Determination of Perchlorate in Water and Soil by LC/MS/MS			
CAM SOP-00453 <b>(OSDWA)</b>	Mercury in Liquids, Soils, Swabs, Paint, Oil, NHP and Food by CVAA.			
CAM SOP-00455 <b>(OSDWA)</b>	Sulphide Determination in Water by Ion Selective Electrode			
CAM SOP-00457 <b>(OSDWA)</b>	Analysis of Cyanide in Liquids and Solids by Colourimetry Cyanide (SAD) Free Cyanide			
CAM SOP-00458	Measurement of Total Residual Chlorine in Water by Amperometric Titration			
CAM SOP-00459 <b>(OSDWA)</b>	UV Transmittance (Percent T) at 254 nm in Water and Wastewater by UV-VIS Spectroscopy % Transmittance			
CAM SOP-00461 <b>(OSDWA)</b>	Analysis of Ortho-Phosphate in Water and Soil by Micro-Colourimetry			
CAM SOP-00473	Colourimetric Determination of Thiocyanate in Liquid Samples			
CAM SOP-00476 <b>(OSDWA)</b>	Microcystins in Waters and Drinking Waters using ELISA			
CAM SOP-00938 <b>(OSDWA)</b>	Total Kjeldahl Nitrogen in Waters (TKN) from Colourimetric TN and NO <sub>2</sub> /NO <sub>3</sub> Total Nitrogen (TN) NO <sub>2</sub> /NO <sub>3</sub>			

#### Water (Microbiology)

CAM SOP-00508 <b>(OSDWA)</b>	Enumeration of <i>Pseudomonas Aeruginosa</i> in Water with the Membrane Filtration Technique
CAM SOP-00511	Enumeration of Fecal <i>Streptococcus</i> and <i>Enterococcus</i> in Water with the Membrane Filtration Technique <i>Enterococcus</i> Fecal <i>Streptococcus</i> <b>(OSDWA)</b>
CAM SOP-00512	Heterotrophic Plate Count in Water and Wastewater using the Pour Plate and Membrane Filtrations Techniques Heterotrophic Plate Count (PP) <b>(OSDWA)</b> Heterotrophic Plate Count (MF)
CAM SOP-00514 <b>(OSDWA)</b>	Detection of Coliforms, Fecal Coliforms, <i>E. coli</i> , in Water with the Presence/Absence Technique <i>Escherichia coli</i> ( <i>E. coli</i> ) Fecal Coliforms Total Coliforms
CAM SOP-00551	Enumeration of Coliform and <i>E. coli</i> in Potable Water Using Membrane Filtration

(OSDWA)	and DC Agar Background <i>Escherichia coli</i> ( <i>E. coli</i> ) Total Coliforms
CAM SOP-00552	Enumeration of Coliform, Fecal Coliform and <i>E. coli</i> in Water and Environmental Samples Using Mendo, mFC-RA and mFC-BCIG Agar and of <i>E. coli</i> in Biosolids using mFC-BCIG Agar Background Counts <i>Escherichia coli</i> ( <i>E. coli</i> ) Fecal Coliforms (OSDWA) Total Coliforms
CAM SOP-00581	Detection of Coliforms and <i>E. coli</i> in Water by Presence/Absence Technique by using LMX Broth <i>Escherichia coli</i> ( <i>E. coli</i> ) Total Coliforms

#### Water (Organic)

BRL SOP-00012 (OSDWA)	Nitrosamines Analysis in water, soil by GC/Triple Quadrupole Mass Spectrometer N-Nitrosodimethylamine N-Nitrosodiethylamine N-Nitrosomorpholine N-Nitrosopiperidine	N-Nitrosoethylmethylamine N-Nitroso-di-n-propylamine N-Nitrosopyrrolidine N-Nitroso-di-n-butylamine		
BRL SOP-00013 (OSDWA)	Determination of Geosmin and 2-MIB in Water by GC Triple Quad Mass Spectrometry (GC/MS/MS) Geosmin 2-Methylisoborneol (2-MIB)			
BRL SOP-00014	Determination of Organochlorine in Water and Soil by Gas Chromatography/Triple Quadrupole Mass Spectrometry (GC/MS/MS) Hexachlorobenzene heptachlor Heptachlor epoxide a-Chlordane op-DDD pp-DDT Endosulfan sulfate	a-BHC d-BHC g-Chlordane a-Endosulfan Endrin b-Endosulfan Methoxychlor	g-BHC Aldrin op-DDE pp-DDE op-DDT pp-DDD Endrin ketone	b-BHC Oxychlorodane Trans-Nonachlor Dieldrin cis-Nonachlor Endrin aldehyde Mirex
BRL SOP-00015	Determination of Toxaphene in Water and Soil by Gas Chromatography/Triple Quadrupole Mass Spectrometry (GC/MS/MS) Hx-Sed Parlar 40 Total Toxaphene	Hp-Sed Parlar 44	Parlar 26 Parlar 50	Parlar 41 Parlar 62
BRL SOP-00217	1,4-Dioxane in Water and Soil Using Isotope Dilution by GCMS			

<b>(OSDWA)</b>	
BRL SOP-00406	Dioxins/Furans in Water, Soil, Food and Biota by HRGC HRMS (EPA 8290A) 1,2,3,4,6,7,8,9-C18-Dibenzofuran      1,2,3,4,6,7,8,9-C18-Dibenzo-p-dioxin 1,2,3,4,6,7,8-C17-Dibenzofuran      1,2,3,4,6,7,8-C17-Dibenzo-p-dioxin 1,2,3,4,7,8,9-C17-Dibenzofuran      1,2,3,4,7,8-C16-Dibenzofuran 1,2,3,4,7,8-C16-Dibenzo-p-dioxin      1,2,3,6,7,8-C16-Dibenzofuran 1,2,3,6,7,8-C16-Dibenzo-p-dioxin      1,2,3,7,8,9-C16-Dibenzofuran 1,2,3,7,8,9-C16-Dibenzo-p-dioxin      1,2,3,7,8-C15-Dibenzofuran 1,2,3,7,8-C15-Dibenzo-p-dioxin      2,3,4,6,7,8-C16-Dibenzofuran 2,3,4,7,8-C15-Dibenzofuran      2,3,7,8-C14-Dibenzofuran 2,3,7,8-C14-Dibenzo-p-dioxin      H6CDD H6CDF      H7CDD H7CDF      O8CDD O8CDF      P5CDD P5CDF      PCDD/PCDF T4CDD      T4CDF
BRL SOP-00408 <b>(OSDWA)</b>	PCB Congener (209 Analytes) by HRGC HRMS in Water, Soil and Air (Modified EPA 1668A) 209 Congeners
BRL SOP-00410	Dioxin and Furans in Water, Leachates, Soil, Food and Biota by HRGC HRMS (EPA 1613) <b># (OSDWA)</b> 1,2,3,4,6,7,8,9-C18-Dibenzofuran      1,2,3,4,6,7,8,9-C18-Dibenzo-p-dioxin 1,2,3,4,6,7,8-C17-Dibenzofuran#      1,2,3,4,6,7,8-C17-Dibenzo-p-dioxin # 1,2,3,4,7,8,9-C17-Dibenzofuran #      1,2,3,4,7,8-C16-Dibenzofuran # 1,2,3,4,7,8-C16-Dibenzo-p-dioxin #      1,2,3,6,7,8-C16-Dibenzofuran # 1,2,3,6,7,8-C16-Dibenzo-p-dioxin #      1,2,3,7,8,9-C16-Dibenzofuran # 1,2,3,7,8,9-C16-Dibenzo-p-dioxin #      1,2,3,7,8-C15-Dibenzofuran # 1,2,3,7,8-C15-Dibenzo-p-dioxin #      2,3,4,6,7,8-C16-Dibenzofuran # 2,3,4,7,8-C15-Dibenzofuran #      2,3,7,8-C14-Dibenzofuran # 2,3,7,8-C14-Dibenzo-p-dioxin #      H6CDD # H6CDF #      H7CDD # H7CDF #      O8CDD # O8CDF #      P5CDD # P5CDF #      PCDD # PCDF #      T4CDD # T4CDF #
CAM SOP 00310 <b>(OSDWA)</b>	The Determination of Formaldehyde in Water and Soil by HPLC
CAM SOP-00219	Analysis of Dissolved Methane and Other Gases in Water by GC/FID Headspace Acetylene      Carbon Dioxide      Ethane      Ethylene Methane <b>(OSDWA)</b> Propane      Propylene
CAM SOP-00226	Volatile Organic Compounds by Purge and Trap GC/MS in Water and Soil

	<p><b> #(OSDWA)</b></p> <p>1- Butanol#</p> <p>1,1,1-Trichloroethane#</p> <p>1,1,2-Trichloroethane#</p> <p>1,1-Dichloroethane#</p> <p>1,2,3 – Trichlorobenzene#</p> <p>1,2,3 – Trimethylbenzene#</p> <p>1,2,4 – Trimethylbenzene#</p> <p>1,2-dichloroethane#</p> <p>1,3,5 – Trichlorobenzene#</p> <p>1,3-Dichlorobenzene #</p> <p>1-Propanol#</p> <p>2-Chloroethyl vinyl ether#</p> <p>Acetaldehyde#</p> <p>Acrolein#</p> <p>Benzene#</p> <p>Bromoform#</p> <p>Butyl acetate#</p> <p>Carbon disulfide#</p> <p>Chlorobenzene#</p> <p>Chloroethane#</p> <p>Chloromethane#</p> <p>cis-1,3-Dichloropropene#</p> <p>Dichlorodifluoromethane#</p> <p>Dicyclopentadiene</p> <p>Diisopropyl ether#</p> <p>Ethyl acetate#</p> <p>Ethylbenzene#</p> <p>Hexane#</p> <p>Isopropanol#</p> <p>m/p-xylene#</p> <p>Methyl acrylate#</p> <p>Methyl isobutyl Ketone#</p> <p>Methyl t-butyl ether#</p> <p>o-xylene#</p> <p>Styrene#</p> <p>Tetrachloroethylene#</p> <p>Toluene#</p> <p>trans-1,3-Dichloropropene#</p> <p>Trichlorofluoromethane#</p> <p>Vinyl Chloride#</p>	<p>1,1,1,2-Tetrachloroethane#</p> <p>1,1,2,2-Tetrachloroethane#</p> <p>1,1,2-Trichlorotrifluoroethane#</p> <p>1,1-dichloroethylene#</p> <p>1,2,3 – Trichloropropane#</p> <p>1,2,4 – Trichlorobenzene#</p> <p>1,2-dichlorobenzene#</p> <p>1,2-Dichloropropane#</p> <p>1,3,5 – Trimethylbenzene#</p> <p>1,4-dichlorobenzene#</p> <p>2-Butanol#</p> <p>2-Hexanone#</p> <p>Acetone (2-Propanone) #</p> <p>Acrylonitrile#</p> <p>Bromodichloromethane#</p> <p>Bromomethane#</p> <p>Butyl acrylate#</p> <p>Carbon Tetrachloride#</p> <p>Chlorodibromomethane#</p> <p>Chloroform#</p> <p>cis-1,2-Dichloroethylene#</p> <p>Cyclohexane#</p> <p>Dichloromethane#</p> <p>Diethyl ether#</p> <p>Ethanol#</p> <p>Ethyl acrylate#</p> <p>Ethylene dibromide#</p> <p>Isobutanol#</p> <p>Isopropyl acetate#</p> <p>Methyl acetate#</p> <p>Methyl Ethyl Ketone#</p> <p><b>Methyl Methacrylate#</b></p> <p>Naphthalene#</p> <p>Propyl acetate#</p> <p>Tert-Butanol#</p> <p>Tetrahydrofuran#</p> <p>trans-1,2-Dichloroethylene#</p> <p>Trichloroethylene#</p> <p>Vinyl acetate#</p>
CAM SOP-00228	<p>Volatile Organic Compounds by Headspace GC/MS in Water and Soil (Headspace Analysis) ( # OSDWA)</p> <p>1- Butanol</p>	<p>1,1,1,2-Tetrachloroethane#</p>



	<p>1,1,1-Trichloroethane#          1,1,2-Trichloroethane#          1,1-Dichloroethane#          1,2,3 – Trichlorobenzene          1,2,3 – Trimethylbenzene          1,2,4 – Trimethylbenzene          1,2-dichloroethane#          1,3,5 – Trichlorobenzene          1,3-Dichlorobenzene #          1-Propanol          2-Chloroethyl vinyl ether          Acetaldehyde          Acrolein          Benzene#          Bromoform#          Butyl acetate          Carbon disulfide          Chlorobenzene#          Chloroethane#          Chloromethane#          cis-1,3-Dichloropropene#          Dichlorodifluoromethane#          Dicyclopentadiene          Diisopropyl ether          Ethyl acetate          Ethylbenzene#          Hexane#          Isopropanol          Isopropylbenzene          Methyl acetate          Methyl Ethyl Ketone#          Methyl methacrylate          Naphthalene          Propyl acetate          Tert-Butanol          Tetrahydrofuran          trans-1,2-Dichloroethylene#          Trichloroethylene#          Vinyl acetate</p>	<p>1,1,2,2-Tetrachloroethane#          1,1,2-Trichlorotrifluoroethane          1,1-dichloroethylene#          1,2,3 - Trichloropropane          1,2,4 - Trichlorobenzene          1,2-dichlorobenzene#          1,2-Dichloropropane#          1,3,5 - Trimethylbenzene          1,4-dichlorobenzene#          2-Butanol          2-Hexanone          Acetone (2-Propanone) #          Acrylonitrile          Bromodichloromethane#          Bromomethane#          Butyl acrylate          Carbon Tetrachloride#          Chlorodibromomethane#          Chloroform#          cis-1,2-Dichloroethylene#          Cyclohexane          Dichloromethane#          Diethyl ether          Ethanol          Ethyl acrylate          Ethylene dibromide#          Isobutanol          Isopropyl acetate          m/p-xylene#          Methyl acrylate          Methyl isobutyl Ketone#          Methyl t-butyl ether#          o-xylene#          Styrene#          Tetrachloroethylene#          Toluene#          trans-1,3-Dichloropropene#          Trichlorofluoromethane#          Vinyl Chloride#</p>						
CAM SOP-00230	<p>Volatile Organic Compounds (VOCs) and F1 Hydrocarbons in Solid and Water Samples Using Headspace GC/MS/FID</p> <table> <tr> <td>1,1,1,2-Tetrachloroethane</td> <td>1,1,1-Trichloroethane</td> </tr> <tr> <td>1,1,2,2-Tetrachloroethane</td> <td>1,1,2-Trichloroethane</td> </tr> <tr> <td>1,1-Dichloroethane</td> <td>1,1-Dichloroethylene</td> </tr> </table>		1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene
1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane							
1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane							
1,1-Dichloroethane	1,1-Dichloroethylene							

	<p>1,2-Dichlorobenzene          1,2-Dichloropropane          1,4-Dichlorobenzene          Benzene          Bromoform          Carbon Tetrachloride          Chloroethane          Chloromethane          cis-1,3-Dichloropropene          Dichlorodifluoromethane          Ethylene dibromide          Hexane          Methyl isobutyl ketone          Methylene chloride          o-Xylene          Styrene          Toluene          trans-1,3-Dichloropropene          Trichlorofluoromethane          Ethanol          tert-Butanol          2-Butanol          1-Butanol</p>	<p>1,2-Dichloroethane          1,3-Dichlorobenzene          Acetone          Bromodichloromethane          Bromomethane          Chlorobenzene          Chloroform          cis-1,2-Dichloroethylene          Dibromochloromethane          Ethylbenzene          F1(C6-C10)          Methyl ethyl ketone          Methyl t-butyl ether          m-Xylene          p-Xylene          Tetrachloroethylene          trans-1,2-Dichloroethylene          Trichloroethylene          Vinyl chloride          Isopropanol          1-Propanol          Isobutanol          Acetaldehyde</p>
CAM SOP-00301	<p>Determination of Semivolatile Organics Acid/Base Neutral Extractables) in Solid and Aqueous Samples Using GC/MS operating under both the Full Scan and Selected Ion Monitoring (SIM) Modes  <b># (OSDWA)</b>          1,2,4-Trichlorobenzene #          1,2-Diphenylhydrazine          1,4-Dichlorobenzene          2,3,4,5-Tetrachlorophenol #          2,3,4-Trichlorophenol #          2,3,5-Trichlorophenol #          2,3-Dichlorophenol #          2,4,5-Trichlorophenol #          2,4,6-trichlorophenol #          2,4-dichlorophenoxyacetic acid #          2,4-Dinitrophenol #          2,5-Dichlorophenol #          2,6-Dinitrotoluene #          2-Chlorophenol          2-Nitrophenol #          3,4,5-Trichlorophenol #          3,5-Dichlorophenol #</p>	<p>1,2-Dichlorobenzene          1,3-Dichlorobenzene #          1-Methylnaphthalene #          2,3,4,6-tetrachlorophenol #          2,3,5,6-Tetrachlorophenol #          2,3,6-Trichlorophenol #          2,4,5-TP #          2,4,5-trichlorophenoxyacetic acid #          2,4-dichlorophenol #          2,4-Dimethyl Phenol #          2,4-Dinitrotoluene #          2,6-Dichlorophenol #          2-Chloronaphthalene #          2-Methylnaphthalene #          3,3'-Dichlorobenzidine #          3,4-Dichlorophenol #          3-Chlorophenol</p>

4,6-Dinitro-o-Cresol #	4-Bromophenyl Phenyl Ether #
4-Chloroaniline #	4-Chlorophenol
4-Chlorophenyl Phenyl Ether #	4-Nitrophenol #
Acenaphthene #	Acenaphthylene #
Alachlor #	Aldicarb #
Ametryn #	Anthracene #
Atrazine #	Bendiocarb #
Benzo (a) anthracene #	<b>Benzo</b> (a) pyrene #
Benzo (b/j) fluoranthene #	Benzo (e) pyrene #
Benzo (g,h,i) perylene #	Benzo (k) fluoranthene #
Biphenyl #	Bis (2-Chloro Ethoxy)Methane #
Bis (2-Chloro Ethyl) Ether #	
Bis(2-chloro-1methylethyl) ether/ Bis (2-Chloro Isopropyl) Ether/ 2,2'-oxybis[1-chloro-propane] #	
Bis (2-ethylhexyl) Phthalate #	Bromoxynil #
Butyl Benzyl Phthalate #	Carbaryl #
Carbofuran #	Chlordane (a,g)
Chlorpyrifos (ethyl) #	Chrysene #
Cyanazine #	Des-ethylatrazine #
Diazinon #	Dibenzo (a,h) anthracene #
Dicamba #	Diclofop-methyl (as free acid) #
Diethyl Phthalate #	Dimethoate #
Dimethyl Phthalate #	Di-n-Butylphthalate #
Di-n-Octylphthalate #	Dinoseb #
Fluoranthene #	Fluorene #
Hexachlorobenzene #	Hexachlorobutadiene #
Hexachlorocyclopentadiene	Hexachloroethane #
Indeno (1,2,3 - cd) pyrene #	Isophorone #
m,p-cresol #	Malathion #
<b>MCPA (OSDWA)</b>	Methoxychlor #
Methyl Parathion #	Metolachlor #
Metribuzin #	Naphthalene #
Nitrobenzene #	N-Nitroso-di-n-Propyl Amine #
N-Nitroso-Diphenylamine/Diphenylamine #	
o-Cresol #	Oxychlordane
p,p'-DDD	p,p'-DDE
Parathion (ethyl) #	p-chloro-m-cresol #
Pentachlorobenzene	Pentachlorophenol #
Phenanthrene #	Phenol #
Phorate #	Picloram #
Prometon #	Prometryne #
Propazine #	Pyrene #
Quinolone	Simazine #
Simetryn #	Terbufos #

	Terbutryn # Trifluralin #	Triallate #
CAM SOP-00305 <b>(OSDWA)</b>	Analysis of Glyphosate in Water and Soil by HPLC	
CAM SOP-00306 <b>(OSDWA)</b>	Analysis of Diuron, Guthion, and Temephos in Water by HPLC Diuron Guthion (azinphos-methyl) Temephos	
CAM SOP-00307, CAM SOP-00317, CAM SOP-00309	Organochlorine Pesticides and PCBs in Solids, Water and Biological Materials by GC-ECD, Polychlorinated Biphenyls (PCBs) as Aroclors in Solid, Water, and Biological Samples by GC-ECD, and Neutral Chlorinated Hydrocarbons in Solid and Water by GC/ECD <b># (OSDWA)</b> 1,2,3,4-tetrachlorobenzene # 1,2,3-Trichlorobenzene # 1,2,4-Trichlorobenzene # 2,4,5-Trichlorotoluene # a – Chlordane # Aroclor 1262 # Aroclor-1221 # Aroclor-1242 # Aroclor-1254 # Aroclor-1268 # d-BHC # Endosulfan I # Endosulfan Sulfate # Endrin Aldehyde # g – Chlordane # Heptachlor Epoxide # Hexachlorobutadiene # Hexachloroethane # Methoxychlor # O,p'-DDD # O,p'-DDT # Oxychlordane # p,p' Methoxychlor # p,p'-DDE # Total PCBs#	
		1,2,3,5-Tetrachlorobenzene # 1,2,4,5-Tetrachlorobenzene # 1,3,5-Trichlorobenzene # A – BHC # Aldrin # Aroclor-1016 # Aroclor-1232 # Aroclor-1248 # Aroclor-1260 # b-BHC # Dieldrin # Endosulfan II # Endrin # Endrin Ketone # Heptachlor # Hexachlorobenzene # Hexachlorocyclopentadiene # Lindane (gamma-BHC) # Mirex # O,p'-DDE # Octachlorostyrene # p,p' – DDT # p,p'-DDD # Pentachlorobenzene # Toxaphene
CAM SOP-00313	Analysis of Nonylphenols and Nonylphenol Ethoxylates in Water by HPLC Total Nonylphenol Total Nonylphenol Ethoxylates	
CAM SOP-00315 <b>(OSDWA)</b>	Determination of CCME C6-C10 Hydrocarbons (F1) and BTEX in Soil and Water by Headspace GC/MS/FID Benzene	

	<p>Ethylbenzene F1: C6-C10 m/p-xylene o-xylene Toluene</p>																						
CAM SOP-00316 <b>(OSDWA)</b>	<p>Determination of CCME Extractable Petroleum Hydrocarbons (F2-4) in Water and Soil by GC/FID F2: C10-C16 F3: C16-C34 F4: C34-C50</p>																						
CAM SOP-00318	<p>Determination of Polynuclear Aromatic Hydrocarbons (PAHs) in Solid and Water Samples Using Selected Ion Monitoring (SIM) GCMS</p> <table border="0"> <tr> <td>1-methylnaphthalene</td> <td>2-methylnaphthalene</td> </tr> <tr> <td>Acenaphthene</td> <td>Acenaphthylene</td> </tr> <tr> <td>Anthracene</td> <td>Benzo (a) anthracene</td> </tr> <tr> <td>Benzo (a) pyrene</td> <td>Benzo (b,j) fluoranthene</td> </tr> <tr> <td>Benzo (e) pyrene</td> <td>Benzo (g,h,i) perylene</td> </tr> <tr> <td>Benzo (k) fluoranthene</td> <td>Biphenyl</td> </tr> <tr> <td>Chrysene</td> <td>Dibenzo (a,h) anthracene</td> </tr> <tr> <td>Fluoranthene</td> <td>Fluorene</td> </tr> <tr> <td>Indeno (1,2,3-cd) pyrene</td> <td>Naphthalene</td> </tr> <tr> <td>Perylene</td> <td>Phenanthrene</td> </tr> <tr> <td>Pyrene</td> <td></td> </tr> </table>	1-methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b,j) fluoranthene	Benzo (e) pyrene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Biphenyl	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Perylene	Phenanthrene	Pyrene	
1-methylnaphthalene	2-methylnaphthalene																						
Acenaphthene	Acenaphthylene																						
Anthracene	Benzo (a) anthracene																						
Benzo (a) pyrene	Benzo (b,j) fluoranthene																						
Benzo (e) pyrene	Benzo (g,h,i) perylene																						
Benzo (k) fluoranthene	Biphenyl																						
Chrysene	Dibenzo (a,h) anthracene																						
Fluoranthene	Fluorene																						
Indeno (1,2,3-cd) pyrene	Naphthalene																						
Perylene	Phenanthrene																						
Pyrene																							
CAM SOP-00320 <b>(OSDWA)</b>	<p>The Determination of Nitroaromatics and Nitramines in Water and Soil Samples by HPLC</p> <table border="0"> <tr> <td>1,3,5-Trinitrobenzene</td> <td>1,3-Dinitrobenzene</td> </tr> <tr> <td>2,4,6-Trinitrotoluene</td> <td>2,4-Dinitrotoluene</td> </tr> <tr> <td>2,6-Dinitrotoluene</td> <td>2-Amino-4,6-dinitrotoluene</td> </tr> <tr> <td>2-Nitrotoluene</td> <td>3,5-Dinitroaniline</td> </tr> <tr> <td>3-Nitrotoluene</td> <td>4-Amino-2,6-dinitrotoluene</td> </tr> <tr> <td>4-Nitrotoluene</td> <td>Hexahydro-1,3,5-trinitro-1,3,5-triazine</td> </tr> <tr> <td>Methyl-2,4,6-trinitrophenylnitramine</td> <td>Nitrobenzene</td> </tr> <tr> <td>Nitroglycerin</td> <td></td> </tr> <tr> <td>Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine</td> <td></td> </tr> <tr> <td>Pentaerythritol tetranitrite (PETN)</td> <td></td> </tr> </table>	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Amino-4,6-dinitrotoluene	2-Nitrotoluene	3,5-Dinitroaniline	3-Nitrotoluene	4-Amino-2,6-dinitrotoluene	4-Nitrotoluene	Hexahydro-1,3,5-trinitro-1,3,5-triazine	Methyl-2,4,6-trinitrophenylnitramine	Nitrobenzene	Nitroglycerin		Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine		Pentaerythritol tetranitrite (PETN)			
1,3,5-Trinitrobenzene	1,3-Dinitrobenzene																						
2,4,6-Trinitrotoluene	2,4-Dinitrotoluene																						
2,6-Dinitrotoluene	2-Amino-4,6-dinitrotoluene																						
2-Nitrotoluene	3,5-Dinitroaniline																						
3-Nitrotoluene	4-Amino-2,6-dinitrotoluene																						
4-Nitrotoluene	Hexahydro-1,3,5-trinitro-1,3,5-triazine																						
Methyl-2,4,6-trinitrophenylnitramine	Nitrobenzene																						
Nitroglycerin																							
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine																							
Pentaerythritol tetranitrite (PETN)																							
CAM SOP-00322 <b>(OSDWA)</b>	<p>The Determination of Propylene Glycol, Ethylene Glycol and Diethylene Glycol in Liquids, Oils and solids by GC/FID</p> <p>Diethylene glycol Ethylene glycol Propylene glycol</p>																						
CAM SOP-00327 <b>(OSDWA)</b>	<p>Analysis of Diquat and Paraquat in Water by HPLC-UV Detector Using Aqueous Ionic Mobile Phase</p> <p>Diquat Paraquat</p>																						

CAM SOP-00330	<p>Determination of Phenoxy Acid Herbicides and related compounds in Aqueous and Solid Samples Using Selected Ion Monitoring (SIM) GC/MS</p> <table border="0"> <tr> <td>2,4,5-T</td> <td>2,4,5-TP</td> </tr> <tr> <td>2,4-D</td> <td>2,4-DB</td> </tr> <tr> <td>2,4-DP (dichlorprop)</td> <td>3,5-dichlorobenzoic acid</td> </tr> <tr> <td>Acifluorfen</td> <td>Bentazon</td> </tr> <tr> <td>Chloramben</td> <td>DCPA Diacid</td> </tr> <tr> <td>Dicamba</td> <td>Dinoseb (DNBP)</td> </tr> <tr> <td>MCPA</td> <td>MCPP</td> </tr> <tr> <td>Pentachlorophenol</td> <td>Picloram</td> </tr> </table>	2,4,5-T	2,4,5-TP	2,4-D	2,4-DB	2,4-DP (dichlorprop)	3,5-dichlorobenzoic acid	Acifluorfen	Bentazon	Chloramben	DCPA Diacid	Dicamba	Dinoseb (DNBP)	MCPA	MCPP	Pentachlorophenol	Picloram												
2,4,5-T	2,4,5-TP																												
2,4-D	2,4-DB																												
2,4-DP (dichlorprop)	3,5-dichlorobenzoic acid																												
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MCPA	MCPP																												
Pentachlorophenol	Picloram																												
CAM SOP-00332	<p>Determination of Chlorinated Phenols in Soil and Water Using Selected Ion Monitoring (SIM) GC/MS</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> <tr> <td>2,4-Dimethylphenol</td> <td>2,4-Dinitrophenol</td> </tr> <tr> <td>2,5-Dichlorophenol</td> <td>2,6-Dichlorophenol</td> </tr> <tr> <td>2-Chlorophenol</td> <td>2-Nitrophenol</td> </tr> <tr> <td>3,4,5-Trichlorophenol</td> <td>3,4-Dichlorophenol</td> </tr> <tr> <td>3,5-Dichlorophenol</td> <td>4,6-Dinitro-2-methylphenol</td> </tr> <tr> <td>4-Chloro-3-Methylphenol</td> <td>4-Chlorophenol</td> </tr> <tr> <td>4-Nitrophenol</td> <td>m/p-Cresol</td> </tr> <tr> <td>o-Cresol</td> <td>Pentachlorophenol</td> </tr> <tr> <td>Phenol</td> <td></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	2,4-Dimethylphenol	2,4-Dinitrophenol	2,5-Dichlorophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Nitrophenol	3,4,5-Trichlorophenol	3,4-Dichlorophenol	3,5-Dichlorophenol	4,6-Dinitro-2-methylphenol	4-Chloro-3-Methylphenol	4-Chlorophenol	4-Nitrophenol	m/p-Cresol	o-Cresol	Pentachlorophenol	Phenol	
2,3,4,5-Tetrachlorophenol	2,3,4,6-Tetrachlorophenol																												
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o-Cresol	Pentachlorophenol																												
Phenol																													
CAM SOP-00435	<p>Anions in Soil and Water by Ion Chromatography</p> <table border="0"> <tr> <td>Bromide</td> <td>Chloride</td> <td>Fluoride</td> <td>Nitrate</td> </tr> <tr> <td>Nitrite (NO<sub>2</sub>)</td> <td>PO<sub>4</sub></td> <td>Sulfate</td> <td></td> </tr> </table>	Bromide	Chloride	Fluoride	Nitrate	Nitrite (NO <sub>2</sub> )	PO <sub>4</sub>	Sulfate																					
Bromide	Chloride	Fluoride	Nitrate																										
Nitrite (NO <sub>2</sub> )	PO <sub>4</sub>	Sulfate																											
CAM SOP-00883	<p>Determination of Morpholine in Water Using LC/MS/MS</p>																												
CAM SOP-00894	<p>Determination of Perfluorinated Compounds in Water and Soil By LC-MS-MS #<b>(OSDWA)</b></p> <ul style="list-style-type: none"> <li>Perfluorobutanoic acid (PFBA) #</li> <li>Perfluoropentanoic acid (PFPeA) #</li> <li>Perfluorohexanoic acid (PFHxA) #</li> <li>Perfluoroheptanoic acid (PFHpA) #</li> <li>Perfluorooctanoic acid (PFOA) #</li> <li>Perfluorononanoic acid (PFNA) #</li> <li>Perfluorodecanoic acid (PFDA) #</li> <li>Perfluoroundecanoic acid (PFUnA) #</li> <li>Perfluorododecanoic acid (PFDoA) #</li> <li>Perfluorotridecanoic acid (PFTTrDA) #</li> <li>Perfluorotetradecanoic acid (PFTeDA) #</li> <li>Perfluorobutanesulfonic acid (PFBS) #</li> </ul>																												

	<p>Perfluoropentanesulfonic acid (PFPeS)          Perfluorohexanesulfonic acid (PFHxS) #          Perfluoroheptanesulfonic acid (PFHpS) #          Perfluorooctanesulfonic acid (PFOS) #          Perfluorononanesulfonic acid (PFNS)          Perfluorodecanesulfonic acid (PFDS) #          Perfluorooctanesulfonamide (PFOSA) #          N-methylperfluorooctanesulfonamide (MeFOSA) #          N-ethylperfluorooctanesulfonamide (EtFOSA) #          N-methylperfluorooctanesulfonamidoethanol (MeFOSE) #          N-ethylperfluorooctanesulfonamidoethanol (EtFOSE) #          N-methylperfluorooctanesulfonamidoacetic acid (MeFOSAA) #          N-ethylperfluorooctanesulfonamidoacetic acid (EtFOSAA) #          4:2 Fluorotelomersulfonic acid (4:2FTS)          6:2 Fluorotelomersulfonic acid (6:2FTS) #          8:2 Fluorotelomersulfonic acid (8:2FTS) #          Hexafluoropropylene oxide dimer acid (HFPO-DA)          4,8-dioxa-3H-perfluorononanoic acid (ADONA)          9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)          11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)</p>
CAM SOP-00954 (OSDWA)	<p>Determination of Haloacetic Acids and Dalapon in Water by GC-ECD          Monochloroacetic acid (MCAA)          Monobromoacetic Acid (MBAA)          Dichloroacetic Acid (DCAA)          Dalapon          Trichloroacetic Acid (TCAA)          Bromochloroacetic Acid (BCAA)          Dibromoacetic Acid (DBAA)</p>

**Occupational Health and Safety:**

**Air Monitoring (Compressed Breathing Air Systems - Z180.1-00, Z180.1-13, Z275.1-16, Z275.2-15);  
 Medical Gases - CAN/CSA Z10083-08, CAN/CSA Z7396.1-06, Z7396.1-09, Z7396.1-12, Z7396.1-17)**

CAM SOP-00200	Analysis of Oxygen, Nitrogen, Carbon Dioxide, Carbon Monoxide and Methane in Compressed Breathing and Medical Gases
CAM SOP-00201	Analysis of Halogenated Hydrocarbon Compounds in Compressed Breathing Gases
CAM SOP-00202	Total Non-methane Hydrocarbons in Compressed Breathing and Medical Gases
CAM SOP-00203	Analysis of Nitrous Oxide in Compressed Breathing and Medical Gases
CAM SOP-00204	C2-C4 Hydrocarbons in Compressed Breathing and Medical Gases
CAM SOP-00205	Analysis of Water, Water Vapour and Odour in Compressed Breathing and Medical Gases
CAM SOP-00206	Determining Oil Particulates and Condensates in Compressed Breathing Gases
CAM SOP-00209	Analysis of Percent Level Carbon Dioxide in Medical Gases

CAM SOP-00210	Analysis of Oxygen by Paramagnetic Analyser in Compressed Breathing Gases
CAM SOP-00216	Analysis of Percent Level Medical Nitrous oxide
CAM SOP-00221	Analysis of Nitrogen Oxides (NOx) in Gases
CAM SOP-00223	Analysis of Percent Level Helium in Compressed Breathing Gases
CAM SOP-00225	Analysis of Percent Level Helium in Compressed Breathing Gases Oxygen Carbon dioxide Methane

## **METALLIC ORES AND PRODUCTS**

### **Mineral Analysis Testing**

#### **Mineral Assaying (Ores, Rocks, Soil, Sediment, Concentrates, Metallic Liquors and other Process Products by Radiochemistry)**

BQL SOP-00001	Neutron Activation Long Lived Isotopes of: Antimony                  Arsenic                  Barium                  Cerium Cesium                  Chromium                  Cobalt                  Europium Gold                  Hafnium                  Iron                  Lanthanum Lutetium                  Molybdenum                  Neodymium                  Nickel Rubidium                  Samarium                  Scandium                  Selenium Silver                  Sodium                  Tantalum                  Terbium Thorium                  Titanium                  Tungsten                  Uranium Ytterbium                  Zinc                  Zirconium
BQL SOP-00002	Neutron Activation Platinum Group Elements with Nickel-Sulphide Fire Assay Pre-Concentration Os                  Ir                  Pd                  Pt Rh                  Ru
BQL SOP-00004	Neutron Activation Short-Lived Isotopes of: Aluminum                  Barium                  Bromine                  Calcium Chlorine                  Dysprosium                  Europium                  Fluorine Indium                  Iodine                  Magnesium                  Manganese Potassium                  Samarium                  Sodium                  Strontium Titanium                  Vanadium
BQL SOP-00005	Delayed Neutron Counting for Uranium and U-235



BQL SOP-00007	Gamma Spectrometry in Solids			
	Natural Decay Chain Isotopes:			
	Th-234	Th-230	Ra-414	Pb-210
	U-235	Th-227	Ra-223	Ac-228
	Ra-228	Pb-212	Rn-222	Pb-214
	Bi-214			
	Synthetic Isotopes:			
	Cs-137	Cs-134	I-131	Zn-65
	Co-60	Mn-54		

## **NON-METALLIC MINERALS AND PRODUCTS**

### **Petroleum Refinery Products (including asphalt materials, petrochemicals, fuels and lubricants):**

#### **Fuels and Lubricants**

ASTM D0092	Flash and Fire Points by Cleveland Open Cup Tester (SLA SOP 00010)
ASTM D0093	Flash Point by Pensky-Martens Closed Cup Tester (SLA SOP-00029)
ASTM D0130	Corrosiveness to Copper from Petroleum Products by Copper Strip Test (SLA SOP-00031)
ASTM D0445	Kinematic Viscosity of Transparent and Opaque Liquids (SLA SOP 00028)
ASTM D0482	Ash from Petroleum Products (SLA SOP-00117)
ASTM D0524	Ramsbottom Carbon Residue of Petroleum Products (SLA SOP-00113)
ASTM D0611	Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents (SLA SOP-00023)
ASTM D0664	Acid Number of Petroleum Products by Potentiometric Titration (SLA SOP-00054)
ASTM D0721	Oil Content of Petroleum Waxes (SLA SOP-00034)
ASTM D0874	Sulfated Ash from Lubricating Oils and Additives (SLA SOP-00013)
ASTM D0892 (IP146 Alternative)	Foaming Characteristics of Lubricating Oils (SLA SOP-00012)
ASTM D0974	Acid and Base Number by colour Indicator Titration (SLA SOP-00017)
ASTM D1298	Standard Test Method for Density, Relative Density (Specific Gravity), or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method (SLA SOP-00056)
ASTM D1401	Water Separability of Petroleum Oils and Synthetic Fluids (SLA SOP-00018)
ASTM D1500	ASTM colour of Petroleum Products (ASTM colour Scale) (SLA SOP-00063)
ASTM D1796	Water and Sediment in Fuel Oils by the Centrifuge Method (SLA SOP 00001)
ASTM D2269	UV Absorption for PNA

ASTM D2896	Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration (Procedure B) (SLA SOP00005)
ASTM D2983	Low-Temperature Viscosity of Lubricants Measured by Brookfield Viscometer (SLA SOP 00024)
ASTM D4052	Density and Relative Density of Liquids by Digital Density Meter (SLA SOP-00019)
ASTM D4294	Sulphur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry (SLA SOP-00026)
ASTM D4629	Trace Nitrogen in Liquid Petroleum Hydrocarbons by Syringe/Inlet Oxidative Combustion and Chemiluminescence Detection (SLA SOP-00115)
ASTM D4951	Determination of Additive Elements in Lubricating Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (SLA SOP-00111)
ASTM D5185	Determination of Additive Elements, Wear Metals, and Contaminants in used Lubricating Oils and Determination of Selected Elements in Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (SLA SOP-00114)
ASTM D5293	Apparent Viscosity of Engine Oils and Base Stocks Between -5° and -35° C by Using the Auto Cold- Cranking Simulator (SLA SOP-00057)
ASTM D5453	Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Oil, Diesel Engine Oil, and Engine Oil by Ultraviolet Fluorescence (SLA SOP-00106)
ASTM D5771	Cloud Point of Petroleum Products (Optical Detection Stepped Cooling Method) (SLA SOP-00119)
ASTM D5950	Pour Point of Petroleum Products (Automatic Tilt Method) (SLA SOP-00030)
ASTM D6304	Determination of Water in Petroleum Products, Lubricating Oils and Additives by Coulometric Karl Fisher Titration (SLA SOP-00112)
SLA SOP-00009	Solid Paraffin Test
SLA SOP-00022	Acidity of White Oils
SLA SOP-00067	UV Aromatics
SLA SOP-00060	Limit of Sulphur Compounds

Number of Scope Listings: 346 test methods plus 7 TMDNRT techniques

**Notes:**

**ISO/IEC 17025:** General Requirements for the Competence of Testing and Calibration Laboratories

**RG-TMDNRT:** SCC Requirements and Guidance for Accreditation of Laboratories Engaged in Test Method Development and Non-Routine Testing

**APHA:** American Public Health Association – Standard Methods for the Examination of Water and Wastewater

**"OSDWA"** indicates the appendix is used for the analysis of Ontario drinking water samples, which is subject to the rules and related regulations under the Ontario "Safe Drinking Water Act" (2002)

**ASTM:** ASTM International, formerly American Society for Testing and Materials

**SOP:** Standard Operating Procedure (Laboratory In-House Test Method)



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.ca](http://www.scc.ca).

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Elias Rafoul  
Vice-President, Accreditation Services  
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