

TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

La présente portée d'accréditation existe également en français et est publiée séparément.

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

Location Name or Operating as (if applicable): Bureau Veritas (Burnaby)

Contact Name: Stephanie Chang

Address: 4606 Canada Way

Burnaby, British Columbia

V5G 1K5

Telephone: 604 734-7276

Website: <u>www.bvna.com</u>

Email: Burnaby-QualityAssuranc@bureauveritas.com

To ensure compliance with the *Official Languages Act*, the Standards Council of Canada (SCC) translated proprietary content from English to French when it was not available in French. In case of discrepancies between the English and French versions, the original version prevails.

SCC File Number:	15188
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Biological
	Chemical/Physical
Program Specialty Area:	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Environmental Testing (ET)
Initial Accreditation:	1993-06-08
Most Recent Accreditation:	2025-04-20
Accreditation Valid to:	2029-06-08





ANIMAL AND PLANTS (AGRICULTURE)

Foods and Edible Products (Human and Animal Consumption):

Fruits and Vegetables, Processed Foods, Animal Tissue, Meat, Fish, Dairy, Honey, Eggs and Egg Products and Animal Derived Foods

ucts and Animai Derived Food	IS Control of the con
BBY7SOP-00011	Analysis of Metals in Meat, Fruit and Vegetables, Processed Foods
	and Animal Derived Foods by ICP-MS
	Aluminum, Antimony, Arsenic,
	Boron, Beryllium, Cadmium,
	Chromium, Copper, Iron,
	Lead, Magnesium, Manganese,
	Molybdenum, Nickel, Selenium,
	Tin, Titanium, Zinc
BBY7SOP-00021	Digestion of Tissue, Vegetation for Analysis of Heavy Metals
	CVAFS / ICPMS
	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, Silver, Sodium,
	Strontium,
	Tellurium, Thallium, Thorium, Tin,
	Titanium, Tungsten, Uranium,
	Vanadium, Zinc, Zirconium

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Environmental:

Water (Microbiology)

(mioresielegy)	
BBY4SOP-00001	Total and Fecal Coliform and <i>E. coli</i> in Water by Membrane Filtration
BBY4SOP-00003	Heterotrophic Plate Count in Water
BBY4SOP-00005	Pseudomonas aeruginosa Count in Water by Membrane Filtration
BBY4SOP-00006	Enterrococcus Count in Water by Membrane Filtration
BBY4SOP-00119	Total and Fecal Coliforms and <i>E. coli</i> by Multiple Tube Fermentation
BBY4SOP-00143	Enumeration of Coliforms and E. coli by MF using Chromocult





Biological Tissues

g.ouoouoo	
BBY7SOP-00002	Determination of Metals in Environmental Samples Using CRC ICPMS Aluminum, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Cesium, Chromium, Cobalt, Copper, Gold, Iron, Lanthanum, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Palladium, Phosphorus, Platinum, Potassium, Rubidium, Selenium, Silicon, Silver, Sodium, Strontium, Sulphur (Sulfur), Tellurium, Thallium, Thorium, Tin, Titanium, Tungsten, Uranium, Vanadium, Zinc, Zirconium
BBY7SOP-00012	Determination of Hg in Solids, Tissues and Miscellaneous Solids by CVAFS
BBY7SOP-00030	Methyl Mercury in Biota, Sediment and Soil Samples by GC-Pyrolysis-CVAFS

Air

BBY5SOP-00005	Analysis of Total Suspended Particulates (TSP), PM2.5, and PM10 in
	Air [modified from BC Environmental Laboratory Manual Section G
	and EPA 600/R-94/038B]
	Particulate>2.5 microns (gravimetric)
BBY6SOP-00037	Determination of Acidity and Fluoride by PCT Analyzer [modified from
	Alcan Ingot – Sebree – Analytical Method for Gaseous and Particulate
	Fluoride in Cassette Samples]
	Fluoride
BBY7SOP-00016	Preparation of Air Filters for Metals Analysis [modified from NIOSH
	7303]
BBY7SOP-00002	Determination of Metals in Environmental Samples Using CRC ICPMS
	[modified from EPA 6020
	Aluminum, Antimony, Arsenic, Barium,
	Beryllium, Boron, Cadmium, Calcium,
	Chromium, Cobalt, Copper, Iron,
	Lead, Magnesium, Manganese, Molybdenum,
	Nickel, Phosphorus, Potassium, Selenium,
	Sodium, Strontium, Sulphur (Sulfur), Tin,
	Titanium, Uranium, Vanadium, Zinc,
	Zirconium



BBY7SOP-00018	Analysis of Various Sample Types by ICP-OES [EPA 6010]
	Aluminum, Antimony, Arsenic
	Barium, Beryllium, Boron,
	Cadmium, Calcium, Chromium,
	Cobalt, Copper, Iron
	Lead, Magnesium, Manganese,
	Molybdenum, Nickel, Phosphorus,
	Potassium, Selenium, Sodium,
	Strontium, Sulphur (Sulfur), Tin,
	Titanium, Vanadium, Zinc,
	Zirconium
BBY8SOP-00027	Determination of Polycyclic Aromatic Hydrocarbons in Air by GC/MS
	[modified from BC Environmental Laboratory Manual (Preparation)
	and EPA 8270 (Analysis)]
	Acenaphthene Acenaphthylene Anthracene
	Benzo (a) anthracene Benzo(a)pyrene
	Benzo(b,j)fluoranthene Benzo(e)pyrene Benzo(g,h,i)perylene
	Benzo(k)fluoranthene
	Chrysene Dibenzo (a,h) anthracene
	Fluoranthene Fluorene Indeno (1,2,3-cd)pyrene
	Naphthalene Perylene Phenanthrene Pyrene



BBY8SOP-00058	VOCs In Air/vapour Using TD Tubes with Analysis by GC/MS
22.000. 00000	[modified from BC Environmental Laboratory Manual Section H]
	1,1-Dichloroethane
	1,1-Dichloroethene
	1,1-Dichloropropene
	1,1,1-Trichloroethane
	1,1,1,2-Tetrachloroethane
	1,1,2-Trichloroethane
	1,1,2,2-Tetrachloroethane
	1,2-Dibromo-3-chloropropane (DBCP)
	1,2-Dibromoethane (Ethylene dibromide)
	1,2-Dichlorobenzene
	1,2-Dichloroethane
	1,2-Dichloropropane
	1,2,3-Trichlorobenzene
	1,2,3-Trichloropropane
	1,2,3-Trimotopiopane
	1,2,4-Trichlorobenzene
	1,2,4-Trichloroberizerie
	1,3-Butadiene
	1,3-Dichlorobenzene
	1,3-Dichloropropane
	1,3,5-Trimethylbenzene
	1,4-Dichlorobenzene
	2-Butanone (Methyl ethyl ketone, MEK)
	2-Chlorophenol
	2-Chlorotoluene
	2-Hexanone (Methyl butyl ketone, MBK)
	2-Propanol (Isopropyl alcohol)
	4-Chlorotoluene (p-Chlorotoluene)
	4-isopropyltoluene (p-Cymene)
	4-Methyl-2-pentanone (MIBK)
	Acetone
	Benzene
	Bromobenzene
	Bromodichloromethane
	Bromoform
	Bromomethane
	Carbon Disulphide
	Carbon tetrachloride
	Chlorobenzene
	Chloroethane (Ethyl Chloride)
	Chloroethene (Vinyl chloride)





Chloroform
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane (Freon12)
Dichloromethane
Ethyl Acetate
Ethylbenzene
Hexachlorobutadiene
Isopropanol
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl tert-butyl ether (MTBE)
Methylcyclohexane
n-Butylbenzene
n-Decane
n-Hexane
n-Propylbenzene
Naphthalene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane
Trichlorotrifluoroethane
Volatile Hydrocarbons (VH): C6-C13

Soil/Solid/Water/Wastewater

ona, water, wastewater	
BBY6SOP-00010	Nitrite and Nitrite Plus Nitrate by Automated Colourimetric Method
	[modified from SM 4500-NO3- I]
	Nitrate + Nitrite Nitrogen
	Nitrite
BBY6SOP-00017	Determination of Sulfate by Konelab [modified from SM 4500-SO4 2-]
	Sulphate





BBY8SOP-00010	Determination of BTEX in Soil and Waters by Headspace-GC-MS
	[modified from EPA 5021 and EPA 5035 and EPA 8260]
	Benzene
	Ethylbenzene
	m,p-Xylene
	Methyl t-butyl ether
	o-Xylene
	Styrene
	Toluene
BBY8SOP-00011	VH Analysis in Soils and Waters by Headspace GC/FID [modified
	from BC Environmental Laboratory Manual Section D]
	VH: C6-C10
	VPH: C6-C10 – BTEX
BBY8SOP-00029	Extractable Hydrocarbons (Water, Soils, Product, TPH) [modified from
	BC Environmental Laboratory Manual Section D]
	Extractable Petroleum Hydrocarbons (EPH): C10-C19
	Extractable Petroleum Hydrocarbons (EPH): C19-C32
	Total Extractable Hydrocarbons (TEH): C10-C30
BBY8SOP-00030	Determination of CCME (F2-F4) in Water and Soil [CCME CWS
	PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD]
	F2: C10-C16
	F3: C16-C34
	F4: C34-C50
BBY8SOP-00012	F1 and LH Analysis for Soils and Waters by Headspace GC/FID
	[CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1
	METHOD]
	F1: C6-C10
	F1-BTEX: C6-C10 – BTEX



BBY8SOP-00054	CP, NCP, HydroxyPhenol in water (MTBE extraction) and soil by
	GC/MS [modified from BC Environmental Laboratory Manual Section
	D]
	2-Chlorophenol
	2-Hydroxyphenol (Catechol)
	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-o-cresol, DNOC)
	2-Methylphenol (o-Cresol)
	2-Nitrophenol
	2,3-Dichlorophenol
	2,3,4-Trichlorophenol
	2,3,4,5-Tetrachlorophenol
	2,3,4,6-Tetrachlorophenol
	2,3,5-Trichlorophenol
	2,3,5,6-Tetrachlorophenol
	2,3,6-Trichlorophenol
	2,4 + 2,5-Dichlorophenol
	2,4-Dimethylphenol
	2,4-Dinitrophenol
	2,4,5-Trichlorophenol
	2,4,6-Trichlorophenol
	2,6-Dichlorophenol
	2,6-Dimethylphenol
	3 + 4-Chlorophenol
	3 + 4-Methylphenol
	3-Hydroxyphenol (Resorcinol)
	3,4-Dichlorophenol
	3,4-Dimethylphenol
	3,4,5-Trichlorophenol
	3,5-Dichlorophenol
	4-Chloro-3-methylphenol
	4-Hydroxyphenol (Hydroquinone)
	4-Nitrophenol
	Pentachlorophenol
	Phenol
BBY8SOP-00060	Determination of Tetraethyllead in Soil and Water by GC/MS [modified
22.000.000	from BC Environmental Laboratory Manual Section D and EPA 8000,
	EPA 8270]
	Tetraethyl lead
	Totacityricad



BBY8SOP-00009	Analysis of VOC's in Soils and Waters by Static Headspace GC/MS
BB163OF-00009	[modified from EPA 5021 and EPA 8260]
	1,1-Dichloroethane
	1,1-dichloroethylene
	1,1-Dichloropropene
	1,1,1-Trichloroethane
	1,1,1,2-Tetrachloroethane
	1,1,2-Trichloroethane
	1,1,2-Trichloropropane
	1,1,2-Trichloro-1,2,2-Triflouroethane (Freon 113)
	1,1,2,2-Tetrachloroethane
	1,2-Dibromo-3-chloropropane (DBCP)
	1,2-Dibromoethane (Ethylene dibromide)
	1,2-dichlorobenzene
	1,2-dichloroethane
	1,2-Dichloropropane
	1,2,3-Trichlorobenzene
	1,2,3-Trichloropropane
	1,2,3-Trichloropropene
	1,2,3-Trimethylbenzene
	1,2,4-Trichlorobenzene
	1,2,4-Trimethylbenzene
	1,3-Butadiene
	1,3-Dichlorobenzene
	1,3-Dichloropropane
	1,3,5-Trichlorobenzene
	1,3,5-Trimethylbenzene
	1,4-dichlorobenzene
	2-Butanone
	2-Chlorotoluene
	4-Methyl-2Pentanone
	4-Chlorotoluene (p-Chlorotoluene)
	4-isopropyltoluene (p-Cymene)
	Acetone
	Benzene
	Bromobenzene
	Bromodichloromethane
	Bromoform
	Bromomethane
	Carbon tetrachloride
	Chlorobenzene
	Chlorodibromomethane
	Chloroethane (Ethyl Chloride)



Chloroethene (Vinyl Chloride)

Chloroform

Chloromethane (Methyl chloride)

cis-1,2-Dichloroethylene

cis-1,3-Dichloropropene

Dibromomethane

Dichlorodifluoromethane

Dichloromethane

Ethylbenzene

Ethyl acetate

Ethylene Dibromide

Hexachlorobutadiene

Hexane

Isopropylbenzene (Cumene)

m,p-Xylene

Methyl t-butyl ether

Methylcyclohexane

n-Butylbenzene

n-Decane

n-Propylbenzene

Naphthalene

o-Xylene

Pentachloroethane

sec-Butylbenzene

Styrene

tert-Butylbenzene

Tetrachloroethylene

Toluene

trans-1,2-Dichloroethylene

trans-1,3-Dichloropropene

Trichloroethylene

Trichlorofluoromethane



551/2005 200/2	
BBY8SOP-00040	VOC Extra Compounds in Soil and Water by Headspace-GC-MS [BC
	Environmental Laboratory Manual Section D]
	1-Butanol (n-Butanol)
	1-Chlorobutane
	1,4-Dioxane (p-dioxane)
	2-Hexanone (Methyl butyl ketone, MBK)
	2-Propanol (Isopropyl alcohol)
	Acrolein (Propenal)
	Acrylonitrile
	Allyl chloride (3-chloropropene)
	Alpha-Diisobutylene
	Beta-Diisobutylene
	Butylated hydroxytoluene (BHT)
	Carbon disulfide
	Chloroprene (2-Chloro-1,3-butadiene)
	Cyclohexanone
	Cyclohexene
	Dicyclopentadiene
	Ethyl acrylate
	Ethyl ether
	Hexachloroethane
	Isobutanol (2-Methyl-1-propanol)
	Methyl methacrylate
	Methylacrylonitrile
	Tetrabromomethane
	Tetrahydrofuran (THF)
	Vinyl acetate
BBY8SOP-00062	Determination of Perchlorate in Water and Soil by LCMSMS [modified
22.0001 00002	from EPA 6850]
	Perchlorate
	ו פוטווטומנס

Soil/Solid/Waste

BBY0SOP-00035	Total Inorganic Carbon in Soil, Sediment and Solids by Acidification
	and Coulometric Determination [modified from ASTM D513-16
	Method B]
	Total inorganic carbon
BBY6SOP-00036	Particle Size Analysis (Six-Size and Size Pack) [modified from SSMA
	55.4]
	Particle size by sieve
BBY6SOP-00039	Determination of Weight Fractions of Greater/Less than 200 Mesh in
	Soil [modified from SSMA 55.4]
	Particulate mesh 200





BBY6SOP-00040	Determination of Loss on Ignition in Soil at 550°C [modified from
	SSMA 28.3]
	Loss on ignition
BBY6SOP-00041	Determination of Foreign Matter in Soils, Vegetation and Solid Waste
	[modified from CCME 1340]
	Foreign matter
BBY6SOP-00050	Determination of Fixed and Volatile Solids in Solid Samples [modified
	from SM 2540 G]
	Total solids (fixed and volatile)
BBY6SOP-00051	PSA by Hydrometer - Texture (Sand, Silt, Clay and Gravel) Analysis
	[modified from SSMA 55.3]
	% sand
	% silt
	% clay
	% gravel
BBY7SOP-00004	Digestion of Soil, Sediment and Sludge for Total Recoverable Metals
	[modified from BC Environmental Laboratory Manual Section C]
BBY7SOP-00012	Determination of Hg in Solids, Tissues and Miscellaneous Solids by
	CVAFS [modified from EPA 245.7 and BC Environmental Laboratory
	Manual Section C]
	Mercury
BBY7SOP-00018	Analysis of Various Sample Types by ICP-OES [modified from EPA
	6010 and BC Environmental Laboratory Manual Section B]
	Aluminum, Antimony, Arsenic, Barium,
	Beryllium, Bismuth, Boron, Cadmium,
	Calcium, Chromium, Cobalt, Copper,
	Iron, Lead, Lithium, Magnesium,
	Manganese, Molybdenum, Nickel, Phosphorus,
	Potassium, Selenium, Silver, Sodium,
	Strontium, Tin, Titanium, Vanadium,
	Zinc, Zirconium
BBY7SOP-00030	Methyl Mercury in Biota, Sediment and Soil Samples by GC-Pyrolysis-
	CVAFS [BC Environmental Laboratory Manual Section C]
	Methylmercury
BBY8SOP-00003	Gravimetric Heavy Hydrocarbon-CCME F4G in Soils by AME [CCME
	CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD]
	F4: Gravimetric
BBY8SOP-00006	Total Oil and Grease in Soils by Sonification Extraction-
	Dichloromethane [modified from BC Environmental Laboratory Manual
	Section D]
	Total Oil and Grease





BBY8SOP-00007	Mineral Oil and Grease in Solid Samples by Sonification Extraction
BB163OF-00007	
	[modified from BC Environmental Laboratory Manual Section D] Mineral Oil and Grease
DDV9COD 00000	
BBY8SOP-00008	Waste Oil Quantification in Solids, Liquids by Petroleum Ether
	Extraction [BC Environmental Laboratory Manual Section D]
PDV000D 00047	Waste Oil Content
BBY8SOP-00017	Determination of Moisture Content in Solid Samples [modified from
	BC Environment Laboratory Manual]
	Percent Moisture
BBY8SOP-00022	Determination of Polycyclic Aromatic Hydrocarbons in Soil by GC/MS
	[modified from BC Environmental Laboratory Manual Section D]
	1-Methylnaphthalene
	2-Chloronaphthalene
	2-Methylnaphthalene
	3-Methylcholanthrene
	4-Nitropyrene
	7,12-Dimethylbenz(a)anthracene
	9,10-Anthraquinone
	Acenaphthene
	Acenaphthylene
	Acridine
	Anthracene
	Benzo(a)anthracene
	Benzo(a)pyrene
	Benzo(b)fluoranthene
	Benzo(c)phenanthrene
	Benzo(e)pyrene
	Benzo(g,h,i)perylene
	Benzo(j)fluoranthene
	Benzo(k)fluoranthene
	Chrysene
	Dibenzo(a,e)pyrene
	Dibenzo(a,h)anthracene
	Fluoranthene
	Fluorene
	Indeno(1,2,3 - cd)pyrene
	N-Methylaniline
	Naphthalene
	Perylene
	Phenanthrene
	Pyrene
	Quinoline
	1



BBY8SOP-00050	Determination of Tributyltin in Soil and Sediment by GC-MS [modified
	from RESTEK CORP APPLICATION NOTE# 59550]
	Tributyltin
	Dibutyltin
BBY8SOP-00063	Determination of Selected Pesticides in Soil by LC/MS/MS [modified
	from EPA 8321B]
	Atrazine
	Desethyl-atrazine
	Bromacil
	Diuron
	Linuron
	Simazine
	Tebuthiuron

Water/Wastewater/Soil Extract/Soil Leachate

BBY0SOP-00003	Determination of pH in Waters, Leachates and Extracts by pH Meter
	[modified from SM 4500-H+ B]
	рН
BBY0SOP-00006	Determination of Conductivity in Waters, Leachates and Extracts by
	Meter [modified from SM 2510 B]
	Conductivity (25°C)
AB SOP-00007	Ammonia-Nitrogen by Automated Phenate Colorimetric method
	[modified from EPA 350.1]
	Ammonia
BBY6SOP-00011	Determination of Chloride by Konelab [modified from SM 4500-CL- E
	and BC Environmental Laboratory Manual Section B]
	Chloride
BBY6SOP-00013	Ortho-, Total Dissolved, and Total Phosphate by Automated Method
	[modified from SM 4500-P E]
	Phosphate
	Total Dissolved Phosphorus
	Total Phosphorus
BBY6SOP-00016	Determination of Total and Total Dissolved Nitrogen by Automated
	Method [modified from SM 4500-N C]
	Total Dissolved Nitrogen
	Total Nitrogen
BBY6SOP-00024	Chemical Oxygen Demand (COD) by Closed Reflux, Colorimetric
	Method [modified from SM 5220 D]
	COD
BBY6SOP-00025	Determination of pH in Saturated Paste Extract [modified from SM
	4500-H+ B]
	pH





PD\(000D 0000	110 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
BBY6SOP-00026	pH, Conductivity, Salinity, Alkalinity (Total, Phenolphthalein) in Water
	[modified from SM 2320 B, SM 2510 B, SM 4500-H+ B]
	Alkalinity (pH 4.5)
	Conductivity (25°C)
DDV660D 00007	pH
BBY6SOP-00027	Determination of Turbidity in Water Samples [modified from SM 2130
	B]
DD\(000D\00000	Turbidity P. F.
BBY6SOP-00028	Determination of pH in Soil Leachate [modified from BC Environmental
	Laboratory Manual Section B]
DD\(000D\00000	pH
BBY6SOP-00029	Specific Conductance in Satpaste and 1:5 DI Leach by Conductivity
	Cell [modified from SM 2510 B]
	Conductivity
BBY6SOP-00030	Satpaste Extract Preparation for Saturation Percent, Salinity Analyses
	[modified from BC Environmental Laboratory Manual Section B]
	Percent Saturation
	Saturated Paste
BBY6SOP-00033	Determination of Total Dissolved Solids in Waters and Wastewaters
	[modified from SM 2540 C]
	Total Dissolved Solids
BBY6SOP-00034	Determination of Total Suspended Solids in Waters and Wastewaters
	[modified from SM 2540 D]
	Total Suspended Solids
BBY6SOP-00035	Determination of Total Solids and Total Solids Fixed in Waters
	[modified from SM 2540 A]
	Fixed Solids
	Total Solids (TS)
BBY6SOP-00037	Determination of Acidity in Waters [modified from SM 2310 B] and
	Fluoride in Waters, Soil Extracts and Leachates by ISE [modified from
	BC MOE ENVIRONMENTAL MANAGEMENT ACT HAZARDOUS
	WASTE REGULATION (EMA/HWR) SCHEDULE 4, PART 2
	(Preparation) and SM 4500-F- C (Analysis)]
	Acidity
	Fluoride
BBY6SOP-00045	Total and Carbonaceous BOD, DO, and pH Analysis [modified from SM
	5210 B]
	BOD (5 day)
	CBOD (5 day)
BBY6SOP-00046	Determination of Free and Total Chlorine in Water [modified from SM
	4500-Cl G]
	Free Chlorine
	Total Chlorine





BBY6SOP-00053	Determination of TOC and DOC in Water and Wastewater [modified
22.0001 00000	from SM 5310B]
	Total Organic Carbon
	Dissolved Organic Carbon
BBY6SOP-00054	Hexavalent Chromium by Discrete Autoanalyzer [modified from SM
BB10001 00001	3500-Cr B]
	Hexavalent Chromium
BBY6SOP-00057	Determination of True Colour in Water Samples by Konelab [modified
BB10001 00001	from SM 2120 C]
	True Colour
BBY7SOP-00001	Determination of Metals in Solids by ICPMS [modified from EPA 6020]
BB17001 00001	Antimony, Arsenic, Barium, Beryllium,
	Boron, Cadmium, Calcium, Chromium,
	Cobalt, Copper, Iron, Lead,
	Manganese, Mercury, Molybdenum,
	Nickel, Selenium, Silver, Thallium,
	Tin, Vanadium, Uranium, Zinc,
	Zirconium
BBY7SOP-00002	Determination of Metals in Environmental Samples Using CRC ICPMS
BB1730F-00002	[modified from EPA 6020 and BC Environmental Laboratory Manual
	Section C]
	Aluminum, Antimony, Arsenic, Barium,
	Beryllium, Bismuth, Boron, Bromine,
	Cadmium, Calcium, Cesium, Chromium,
	Cobalt, Copper, Gold, Iron,
	• •
	Lanthanum, Lead, Lithium, Magnesium,
	Manganese, Mercury, Molybdenum, Nickel,
	Palladium, Phosphorus, Platinum, Potassium,
	Rubidium, Selenium, Silicon, Silver,
	Sodium, Strontium, Sulphur (Sulfur), Tellurium,
	Thallium, Thorium, Tin, Titanium,
	Tungsten, Uranium, Vanadium,
DDV700D 00000	Zinc, Zirconium
BBY7SOP-00003	Digestion of Aqueous Samples for Metals by ICPMS or ICP-OES
	[modified from EPA 6020 and BC Environmental Laboratory Manual
DDV/700D 00005	Section C]
BBY7SOP-00005	Procedure for the Preparation of Solids and Soil using TCLP [EPA
	1311]
BBY7SOP-00009	Procedure for the Preparation of Leachates Using BC MLEP [modified
	from BC MOE ENVIRONMENTAL MANAGEMENT ACT HAZARDOUS
	WASTE REGULATION (EMA/HWR) SCHEDULE 4, PART 2]



BBY7SOP-00018	Analysis of Various Sample Types by ICP-OES [modified from EPA
	6010]
	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, Sulphur (Sulfur), Tin,
	Titanium, Vanadium, Zinc, Zirconium
BBY7SOP-00022	Determination of Ultra-Low Level Mercury in Water by CVAFS
	[modified from EPA 1631]
	Mercury
BBY7SOP-00028	Methyl Mercury in Water by GC-Pyrolysis-CVAFS [modified from EPA
	1630]
	Methylmercury
BBY7SOP-00029	Determination of Metals in Environmental Samples Using ICP-QQQ
	[modified from EPA 6020 and BC Environmental Laboratory Manual
	Section C]
	Aluminum, Antimony, Arsenic, Barium,
	Beryllium, Bismuth, Boron,
	Cadmium, Calcium, Cesium,
	Chromium, Cobalt, Copper,
	Gold, Iron, Lanthanum,
	Lead, Lithium, Magnesium
	Manganese, Mercury, Molybdenum,
	Nickel, Palladium, Phosphorus,
	Platinum, Potassium, Ruthenium,
	Rubidium, Selenium, Silicon,
	Silver, Sodium, Strontium,
	Sulphur (Sulfur), Tellurium, Thallium,
	Thorium, Tin, Titanium,
	Tungsten, Uranium, Vanadium,
	Yttrium, Zinc, Zirconium
BBY7SOP-00032	Determination of Mercury in Environmental Samples by CVAFS
	[modified from BC Environmental Laboratory Manual Section C)
	Mercury
BBY8SOP-00004	Oil and Grease in Water Samples by Hexane Extraction and
	Gravimetry [modified from BC Environmental Laboratory Manual
	Section D]
	Mineral Oil and Grease
	Total Oil and Grease



DDV0COD 00004	Determination of Debuggelia Anguage Cold House de control Marie
BBY8SOP-00021	Determination of Polycyclic Aromatic Hydrocarbons in Waters by
	GC/MS [modified from BC Environmental Laboratory Manual Section
	D]
	1-Methylnaphthalene
	2-Chloronaphthalene
	2-Methylnaphthalene
	3-Methylcholanthrene
	4-Nitropyrene
	7,12-Dimethylbenz(a)anthracene
	9,10-Anthraquinone
	Acenaphthene
	Acenaphthylene
	Acridine
	Anthracene
	Benzo(a)anthracene
	Benzo(a)pyrene
	Benzo(b,j)fluoranthene
	Benzo(c)phenanthrene
	Benzo(e)pyrene
	Benzo(g,h,i)perylene
	Benzo(k)fluoranthene
	Chrysene
	Dibenzo(a,e)pyrene
	Dibenzo(a,h)anthracene
	Fluoranthene
	Fluorene
	Indeno(1,2,3-cd)pyrene
	N-Methylaniline
	Naphthalene
	Perylene
	Phenanthrene
	Pyrene
	Quinoline
BBY8SOP-00059	Determination of Tributyltin in Water by GC-MS [modified from
2210001 00000	RESTEK CORP LIT. CAT#59550]
	Dibutyltin
	Tributyltin
	Thought



BBY8SOP-00024	Analysis of ABN in Liquid Samples by SIM GC/MS [modified from EPA
BB1650P-00024	
	8270E]
	1,2-diphenylhydrazine 2-Chloronaphthalene
	2-Chlorophenol
	2-Methylnapthalene
	2-Nitrophenol
	1 · · ·
	4-Bromophenylphenylether 4-Chloro-3-methylphenol
	4-Chlorophenylphenylether
	4-Nitrophenol
	·
	2,4 + 2,5-Dichlorophenol
	2,4-Dimethylphenol
	2,4-Dinitrophenol
	2,4-Dinitrotoluene
	2,6-Dinitrotoluene
	1,2,4-Trichlorobenzene
	2,4,6-Trichlorophenol
	3,3'-Dichlorobenzidine
	4, 6-Dinitro-2-methylphenol
	Acenaphthene
	Acenaphthylene
	Alpha-Terpineol
	Anthracene
	Benzo(a)anthracene
	Benzo(a)pyrene
	Benzo(b&j)fluoranthene
	Benzo(g,h,i)perylene
	Benzo(k)fluoranthene
	Bis(2-chloroethoxy)methane
	Bis(2-chloroethyl)ether
	Bis(2-chloroisopropyl)ether
	Bis(2-ethylhexyl)phthalate
	Chrysene
	Dibenz(a,h)anthracene
	Diethyl phthalate
	Dimethyl phthalate
	Di-n-butylphthalate
	Di-n-octylphthalate
	Fluoranthene
	Fluorene
	Hexachlorobutadiene
	Hexachlorocyclopentadiene





	Tille extitement are
	Hexachloroethane
	Indeno(1,2,3-cd)pyrene
	Isophorone
	Naphthalene
	N-butylbenzylphthalate
	Nitrobenzene
	N-Nitrosodimethylamine
	N-Nitrosodiphenylamine
	N-Nitrosodi-n-propylamine
	Pentachlorophenol
	Phenanthrene
	Phenol
	Pyrene
	2,3,5,6-Tetrachlorophenol
	2,3,4,5-Tetrachlorophenol
	2,3,4,6-Tetrachlorophenol
BBY8SOP-00025	Chlorinated Phenols in Water (DCM extraction) by GC/MS [modified
	from BC Environmental Laboratory Manual Section D]
	2-Chlorophenol
	2,3-Dichlorophenol
	2,3,4-Trichlorophenol
	2,3,4,5-Tetrachlorophenol
	2,3,4,6-tetrachlorophenol
	2,3,5-Trichlorophenol
	2,3,5,6-Tetrachlorophenol
	2,3,6-Trichlorophenol
	2,4 + 2,5-Dichlorophenol
	2,4,5-Trichlorophenol
	2,4,6-trichlorophenol
	2,6-Dichlorophenol
	3 + 4-Chlorophenol
	3,4-Dichlorophenol
	3,4,5-Trichlorophenol
	· · ·
	3,5-Dichlorophenol
	4-Chloro-3-Methylphenol
DDV000D 00005	Pentachlorophenol
BBY8SOP-00065	Determination of 6PPD-Quinone in Aqueous Matrices Using LC/MS/MS
	[modified from EPA 1634 DRAFT]
1	6PPD-Quinone

Seawater



BB)/700B 00000	
BBY7SOP-00002	Determination of Metals in Environmental Samples Using CRC ICPMS
	[modified from EPA 6020]
	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, Sulphur (Sulfur), Tellurium,
	Tin, Thallium, Titanium,
	Uranium, Vanadium, Zinc,
	Zirconium

Soil/Solid (Toxicology)

oliu (Toxicology)	
BBY2SOP-00010	Chironomids dilutus 10-Day Survival and Growth Test [EPS 1/RM/32]
	Chironomids (10d)
BBY2SOP-00011	Hyalella azteca 14-Day Survival and Growth Test [EPS 1/RM/33]
	Hyalella azteca (14d)
BBY2SOP-00012	Marine or Estuarine Amphipod 10 Day Survival and Reburial Test [EPS
	1/RM/26 and EPS 1/RM/35]
	Marine Amphipods (10d)
BBY2SOP-00014	Microtox - Acute Solid Phase Analysis [EPS 1/RM/42]
	Microtox IC50
BBY2SOP-00030	Neanthes arenaceodentata Survival and Growth Test
	Neanthes (20d)
BBY2SOP-00032	Bivalve Larval Development Sediment Test [PUGET SOUND
	ESTUARY PROGRAM 1995 B]
	Bivalves (48hr)
BBY2SOP-00062	Echinoderm Embryo / Larval Development Test [EPS 1/RM/58]
	Echinoid Larval Development (48hr)

Water (Toxicology)

(10,000,000)	
BBY2SOP-00001	Ceriodaphnia dubia Chronic Survival and Reproduction Test [EPS 1/RM/21]
	Ceriodaphnia dubia (7d)
BBY2SOP-00002	Fathead Minnow 7 Day Survival and Growth Test [EPS 1/RM/22]
	Fathead Minnow (7d)
BBY2SOP-00004	Rainbow Trout Acute Survival Test (Environment Canada) [EPS
	1/RM/13 and EPS 1/RM/9]
	Single Concentration (96hr)
	Trout LC50 (96hr)





BBY2SOP-00006	Pseudokirchneriella Subcapitata 72H Growth Inhibition Test [EPS
	1/RM/25]
	Pseudokirchneriella subcapitata (72hr)
BBY2SOP-00007	Daphnia magna 48 Hour Acute Test [EPS 1/RM/11 and EPS 1/RM/14]
	Daphnia LC50 (48hr)
	Daphnia Single Concentration (48hr)
BBY2SOP-00009	Echinoid 20 Minute Fertilization Test [EPS 1/RM/27]
	Echinoderm Fertilization (20 min)
BBY2SOP-00053	Lemna minor 7 Day Growth Inhibition Test [EPS 1/RM/37]
	Lemna minor (7d)
BBY2SOP-00061	Rainbow Trout Acute Survival Test with pH Stabilization [EPS 1/RM/50]
	Single Concentration (96hr) - pH Stabilization
	Trout LC50 (96hr) - pH Stabilization
BBY2SOP-00069	Marine Copepod 48 Hour Acute Test [EPS 1/RM/60]
	Marine Copepod LC50 (48hr)
	Marine Copepod Single Concentration (48hr)

Number of Scope Listings: 104

Notes:

All laboratory standard operating procedures are developed in-house.

ISO/IEC: International Organization for Standardization/International Electrotechnical Commission

GC: Gas Chromatography

GC-MS or GC/MS: Gas Chromatography-Mass Spectrometry

GC-MS-MS or GCMSMS: Gas Chromatography-High Resolution Mass Spectrometry

HPLC: High Pressure Liquid Chromatography

LC-MS: Liquid Chromatography

LCMSMS: Liquid Chromatography-High Resolution Mass Spectrometry AFAP: Agriculture Inputs, Food, Animal Health and Plant Protection

ET: Environmental Testing PSA: Program Speciality Area

ICP-MS or ICPMS: Inductively Coupled Mass Spectrometry

E.coli: Escherichia coli spp.: species, plural form

EBDC: ethylenebisdithiocarbamates

GC/LC: Gas Chromatography/Liquid Chromatography

CRC: collision reaction cell

CVAFS: cold vapour atomic fluorescence spectroscopy

TSP: total solid particulates

PM2.5: particulate matter, 2.5 microns or less PM10: particulate matter, 10 microns or less

BC: British-Columbia

EPA: US Environmental Protection Agency

NIOSH: National Institute for Occupational Safety and Health

ICP-OES: Inductively coupled plasma-optical emission spectroscopy

VOCs: Volatile Organic Compounds

TD: Thermal Desorption



SM: Standard Method

BTEX: Benzene, Toluene, Ethylbenzene, Xylenes

GC/FID: Gas Chromatography/Flame Ionization Detection CCME: Canadian Council of Ministers of the Environment

CWS: Canada Wide Standards

F1: fraction 1 F2: fraction 2 F3: fraction 3 F4: fraction 4

LH: Light Hydrocarbons CP: Chlorinated phenolic NCP: Non-chlorinated phenolic MTBE: Methyl tert-Butyl Ether COD: Chemical oxygen demand

DI: De-ionized Water

BOD: Biological Oxygen Demand

CBOD: Carbonaceous Biological Oxygen Demand

MOE: Ministry of the Environment

TCLP: Toxicity Characteristic Leaching Procedure MLEP: Modified Leachate Extraction process

ICP-QQQ: Inductively Coupled Plasma-Triple Quadrupole Mass Spectrometer

EPS: Environmental Protection Service

RM: Reference Method

10d: 10-days 14d: 14-days

IC50: concentration of an inhibitor at which the response is decreased by half

20d: 20-days

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 scc-ccn.ca.

Elias Rafoul

Vice-President, Accreditation Services

Publication on: 2025-04-29