



BC MINISTRY OF ENVIRONMENT -
Compliance - Surrey
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Date Received: 22-FEB-20
Report Date: 24-FEB-20 17:17 (MT)
Version: FINAL

Client Phone: 604-582-5216

Certificate of Analysis

Lab Work Order #: L2419888

Project P.O. #: 50247699

Job Reference: MW19-2

C of C Numbers:

Legal Site Desc:

**Other
Information:**

Client: CL
EMS ID: E319172
Project: N/A

Dean Watt, B.Sc.
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID				
		Description				
		Sampled Date				
		Sampled Time				
		Client ID				
		L2419888-1				
		Water				
		21-FEB-20				
		09:30				
		E319172				
Grouping	Analyte					
WATER						
Physical Tests	Colour, True (CU)	<5.0				
	Conductivity (uS/cm)	392				
	Hardness (as CaCO3) (mg/L)	181				
	pH (pH)	7.67				
	Total Suspended Solids (mg/L)	4.8				
	Total Dissolved Solids (mg/L)	218				
	Turbidity (NTU)	3.63				
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	113				
	Chloride (Cl) (mg/L)	7.42				
	Fluoride (F) (mg/L)	0.070				
	Nitrate (as N) (mg/L)	0.449				
	Nitrite (as N) (mg/L)	<0.0010				
	Sulfate (SO4) (mg/L)	80.8				
Total Metals	Aluminum (Al)-Total (mg/L)	0.222				
	Antimony (Sb)-Total (mg/L)	0.00010				
	Arsenic (As)-Total (mg/L)	0.00018				
	Barium (Ba)-Total (mg/L)	0.0140				
	Beryllium (Be)-Total (mg/L)	<0.00010				
	Bismuth (Bi)-Total (mg/L)	<0.000050				
	Boron (B)-Total (mg/L)	0.013				
	Cadmium (Cd)-Total (mg/L)	<0.0000050				
	Calcium (Ca)-Total (mg/L)	59.3				
	Chromium (Cr)-Total (mg/L)	0.00048				
	Cobalt (Co)-Total (mg/L)	0.00014				
	Copper (Cu)-Total (mg/L)	0.00072				
	Iron (Fe)-Total (mg/L)	0.120				
	Lead (Pb)-Total (mg/L)	0.000082				
	Magnesium (Mg)-Total (mg/L)	6.98				
	Manganese (Mn)-Total (mg/L)	0.0119				
	Molybdenum (Mo)-Total (mg/L)	0.00128				
	Nickel (Ni)-Total (mg/L)	<0.00050				
	Phosphorus (P)-Total (mg/L)	<0.030				
	Potassium (K)-Total (mg/L)	0.826				
	Selenium (Se)-Total (mg/L)	0.000315				
	Silicon (Si)-Total (mg/L)	4.73				
	Silver (Ag)-Total (mg/L)	0.000012				
	Sodium (Na)-Total (mg/L)	10.9				

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID				
		Description				
		Sampled Date				
		Sampled Time				
		Client ID				
Grouping	Analyte					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.182				
	Sulfur (S)-Total (mg/L)	27.4				
	Thallium (Tl)-Total (mg/L)	<0.000010				
	Tin (Sn)-Total (mg/L)	<0.00010				
	Titanium (Ti)-Total (mg/L)	0.00783				
	Uranium (U)-Total (mg/L)	0.00124				
	Vanadium (V)-Total (mg/L)	0.00140				
	Zinc (Zn)-Total (mg/L)	<0.0030				
Dissolved Metals	Dissolved Metals Filtration Location	FIELD				
	Aluminum (Al)-Dissolved (mg/L)	0.0029				
	Antimony (Sb)-Dissolved (mg/L)	<0.00010				
	Arsenic (As)-Dissolved (mg/L)	0.00016				
	Barium (Ba)-Dissolved (mg/L)	0.0143				
	Beryllium (Be)-Dissolved (mg/L)	<0.00010				
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050				
	Boron (B)-Dissolved (mg/L)	0.013				
	Cadmium (Cd)-Dissolved (mg/L)	<0.0000050				
	Calcium (Ca)-Dissolved (mg/L)	61.1				
	Chromium (Cr)-Dissolved (mg/L)	0.00013				
	Cobalt (Co)-Dissolved (mg/L)	<0.00010				
	Copper (Cu)-Dissolved (mg/L)	0.00048				
	Iron (Fe)-Dissolved (mg/L)	<0.0050				
	Lead (Pb)-Dissolved (mg/L)	<0.000050				
	Magnesium (Mg)-Dissolved (mg/L)	6.92				
	Manganese (Mn)-Dissolved (mg/L)	0.00968				
	Molybdenum (Mo)-Dissolved (mg/L)	0.00131				
	Nickel (Ni)-Dissolved (mg/L)	<0.00050				
	Phosphorus (P)-Dissolved (mg/L)	<0.010				
	Potassium (K)-Dissolved (mg/L)	0.821				
	Selenium (Se)-Dissolved (mg/L)	0.000315				
	Silicon (Si)-Dissolved (mg/L)	4.29				
	Silver (Ag)-Dissolved (mg/L)	<0.000010				
	Sodium (Na)-Dissolved (mg/L)	11.9				
	Strontium (Sr)-Dissolved (mg/L)	0.191				
	Sulfur (S)-Dissolved (mg/L)	28.7				
	Thallium (Tl)-Dissolved (mg/L)	<0.000010				
	Tin (Sn)-Dissolved (mg/L)	<0.00010				

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L2419888-1 Water 21-FEB-20 09:30 E319172				
Grouping	Analyte					
WATER						
Dissolved Metals	Titanium (Ti)-Dissolved (mg/L)	<0.00030				
	Uranium (U)-Dissolved (mg/L)	0.00115				
	Vanadium (V)-Dissolved (mg/L)	0.00106				
	Zinc (Zn)-Dissolved (mg/L)	<0.0010				
Hydrocarbons	EPH10-19 (mg/L)	<0.050				
	EPH19-32 (mg/L)	<0.050				
	LEPH (mg/L)	<0.050				
	HEPH (mg/L)	<0.050				
	Surrogate: 2-Bromobenzotrifluoride (%)	100.6				
Polycyclic Aromatic Hydrocarbons	Acenaphthene (mg/L)	<0.000010				
	Acenaphthylene (mg/L)	<0.000010				
	Acridine (mg/L)	<0.000010				
	Anthracene (mg/L)	<0.000010				
	Benz(a)anthracene (mg/L)	<0.000010				
	Benzo(a)pyrene (mg/L)	<0.0000050				
	Benzo(b&j)fluoranthene (mg/L)	<0.000010				
	Benzo(b+j+k)fluoranthene (mg/L)	<0.000015				
	Benzo(g,h,i)perylene (mg/L)	<0.000010				
	Benzo(k)fluoranthene (mg/L)	<0.000010				
	Chrysene (mg/L)	<0.000010				
	Dibenz(a,h)anthracene (mg/L)	<0.0000050				
	Fluoranthene (mg/L)	<0.000010				
	Fluorene (mg/L)	<0.000010				
	Indeno(1,2,3-c,d)pyrene (mg/L)	<0.000010				
	1-Methylnaphthalene (mg/L)	<0.000050				
	2-Methylnaphthalene (mg/L)	<0.000050				
	Naphthalene (mg/L)	<0.000050				
	Phenanthrene (mg/L)	<0.000020				
	Pyrene (mg/L)	<0.000010				
	Quinoline (mg/L)	<0.000050				
	Surrogate: Acridine d9 (%)	96.5				
	Surrogate: Chrysene d12 (%)	95.2				
	Surrogate: Naphthalene d8 (%)	86.5				
	Surrogate: Phenanthrene d10 (%)	104.9				

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Laboratory Control Sample	Sodium (Na)-Dissolved	MES	L2419888-1
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2419888-1
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2419888-1
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2419888-1
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2419888-1
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2419888-1
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L2419888-1
Matrix Spike	Calcium (Ca)-Total	MS-B	L2419888-1
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2419888-1
Matrix Spike	Nickel (Ni)-Total	MS-B	L2419888-1
Matrix Spike	Potassium (K)-Total	MS-B	L2419888-1
Matrix Spike	Selenium (Se)-Total	MS-B	L2419888-1
Matrix Spike	Strontium (Sr)-Total	MS-B	L2419888-1
Matrix Spike	Sulfur (S)-Total	MS-B	L2419888-1
Matrix Spike	Uranium (U)-Total	MS-B	L2419888-1

Qualifiers for Individual Parameters Listed:

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-TITR-VA	Water	Alkalinity Species by Titration	APHA 2320 Alkalinity
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
CL-IC-N-VA	Water	Chloride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
COLOUR-TRUE-VA	Water	Colour (True) by Spectrometer	BCMOE Colour Single Wavelength
This analysis is carried out using procedures adapted from British Columbia Environmental Manual "Colour- Single Wavelength." Colour (True Colour) is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using the platinum-cobalt colourimetric method.			
Colour measurements can be highly pH dependent, and apply to the pH of the sample as received (at time of testing), without pH adjustment. Concurrent measurement of sample pH is recommended.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
EC-SCREEN-VA	Water	Conductivity Screen (Internal Use Only)	APHA 2510
Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.			
EPH-L-ME-FID-VA	Water	EPH in Water (Low Level)	BC Lab Manual
EPH is extracted from water using a hexane micro-extraction technique, with analysis by GC-FID, as per the BC Lab Manual. EPH results include PAHs and are therefore not equivalent to LEPH or HEPH.			
F-IC-N-VA	Water	Fluoride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.			
LEPH/HEPH-CALC-VA	Water	LEPHs and HEPHs	BC MOE LEPH/HEPH
LEPHw and HEPHw are measures of Light and Heavy Extractable Petroleum Hydrocarbons in water. Results are calculated by subtraction of applicable PAH concentrations from EPH10-19 and EPH19-32, as per the BC Lab Manual LEPH/HEPH calculation procedure.			
LEPHw = EPH10-19 minus Acenaphthene, Acridine, Anthracene, Fluorene, Naphthalene and Phenanthrene.			

Reference Information

HEPHw = EPH19-32 minus Benz(a)anthracene, Benzo(a)pyrene, Fluoranthene, and Pyrene.

MET-D-CCMS-VA Water Dissolved Metals in Water by CRC ICPMS APHA 3030B/6020A (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-DIS-ULTRA-MS-VA Water Diss. Metals in Water by ICPMS (Ultra) EPA SW-846 3005A/6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

MET-T-CCMS-VA Water Total Metals in Water by CRC ICPMS EPA 200.2/6020A (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-TOT-ULTRA-MS-VA Water Total Metals in Water by ICPMS (Ultra) EPA SW-846 3005A/6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

NO2-L-IC-N-VA Water Nitrite in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-U-IC-N-VA Water Nitrate in Water by IC (Ultra Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

PAH-ME-MS-VA Water PAHs in Water EPA 3511/8270D (mod)

PAHs are extracted from water using a hexane micro-extraction technique, with analysis by GC/MS. Because the two isomers cannot be readily separated chromatographically, benzo(j)fluoranthene is reported as part of the benzo(b)fluoranthene parameter.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H pH Value

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode.

It is recommended that this analysis be conducted in the field.

SO4-IC-N-VA Water Sulfate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-VA Water Total Dissolved Solids by Gravimetric APHA 2540 C - GRAVIMETRIC

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.

TSS-VA Water Total Suspended Solids by Gravimetric APHA 2540 D - GRAVIMETRIC

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.

TURBIDITY-VA Water Turbidity by Meter APHA 2130 Turbidity

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
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VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA
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Chain of Custody Numbers:

Reference Information

Additional Information:

Average Cooler Temperature (Deg Celsius): 3

Sampling Agency Code: 10

Project: N/A

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg ww - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2419888

Report Date: 24-FEB-20

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EPH-L-ME-FID-VA								
Water								
Batch	R4996148							
WG3280144-1	MB							
EPH10-19			<0.050		mg/L		0.05	24-FEB-20
EPH19-32			<0.050		mg/L		0.05	24-FEB-20
Surrogate: 2-Bromobenzotrifluoride			93.4		%		60-140	24-FEB-20
F-IC-N-VA								
Water								
Batch	R5001031							
WG3280005-3	DUP	L2419888-1						
Fluoride (F)		0.070	0.069		mg/L	0.6	20	22-FEB-20
WG3280005-2	LCS							
Fluoride (F)			94.4		%		90-110	22-FEB-20
WG3280005-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	22-FEB-20
WG3280005-5	MS	L2419888-1						
Fluoride (F)			100.1		%		75-125	22-FEB-20
MET-D-CCMS-VA								
Water								
Batch	R5002146							
WG3280215-2	LCS							
Aluminum (Al)-Dissolved			112.2		%		80-120	24-FEB-20
Antimony (Sb)-Dissolved			100.8		%		80-120	24-FEB-20
Arsenic (As)-Dissolved			113.5		%		80-120	24-FEB-20
Barium (Ba)-Dissolved			113.6		%		80-120	24-FEB-20
Beryllium (Be)-Dissolved			100.7		%		80-120	24-FEB-20
Bismuth (Bi)-Dissolved			109.6		%		80-120	24-FEB-20
Boron (B)-Dissolved			104.8		%		80-120	24-FEB-20
Cadmium (Cd)-Dissolved			100.4		%		80-120	24-FEB-20
Calcium (Ca)-Dissolved			107.3		%		80-120	24-FEB-20
Chromium (Cr)-Dissolved			110.5		%		80-120	24-FEB-20
Cobalt (Co)-Dissolved			112.9		%		80-120	24-FEB-20
Copper (Cu)-Dissolved			111.2		%		80-120	24-FEB-20
Lead (Pb)-Dissolved			106.2		%		80-120	24-FEB-20
Magnesium (Mg)-Dissolved			111.3		%		80-120	24-FEB-20
Manganese (Mn)-Dissolved			112.5		%		80-120	24-FEB-20
Molybdenum (Mo)-Dissolved			104.3		%		80-120	24-FEB-20
Nickel (Ni)-Dissolved			111.9		%		80-120	24-FEB-20
Potassium (K)-Dissolved			110.3		%		80-120	24-FEB-20
Selenium (Se)-Dissolved			108.8		%		80-120	24-FEB-20

Quality Control Report

Workorder: L2419888

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA								
Water								
Batch	R5002146							
WG3280215-2	LCS							
Silicon (Si)-Dissolved			107.6		%		60-140	24-FEB-20
Silver (Ag)-Dissolved			103.8		%		80-120	24-FEB-20
Sodium (Na)-Dissolved			120.8	MES	%		80-120	24-FEB-20
Strontium (Sr)-Dissolved			106.1		%		80-120	24-FEB-20
Sulfur (S)-Dissolved			105.8		%		80-120	24-FEB-20
Thallium (Tl)-Dissolved			111.3		%		80-120	24-FEB-20
Tin (Sn)-Dissolved			102.7		%		80-120	24-FEB-20
Titanium (Ti)-Dissolved			109.0		%		80-120	24-FEB-20
Uranium (U)-Dissolved			108.2		%		80-120	24-FEB-20
Vanadium (V)-Dissolved			113.0		%		80-120	24-FEB-20
Zinc (Zn)-Dissolved			116.9		%		80-120	24-FEB-20
WG3280215-1	MB	NP						
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	24-FEB-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	24-FEB-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	24-FEB-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	24-FEB-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	24-FEB-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	24-FEB-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	24-FEB-20
Cadmium (Cd)-Dissolved			<0.0000050		mg/L		0.000005	24-FEB-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	24-FEB-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	24-FEB-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	24-FEB-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	24-FEB-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	24-FEB-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	24-FEB-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	24-FEB-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	24-FEB-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	24-FEB-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	24-FEB-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	24-FEB-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	24-FEB-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	24-FEB-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	24-FEB-20

Quality Control Report

Workorder: L2419888

Report Date: 24-FEB-20

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-VA								
Water								
Batch	R5002146							
WG3280215-1	MB	NP						
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	24-FEB-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	24-FEB-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	24-FEB-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	24-FEB-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	24-FEB-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	24-FEB-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	24-FEB-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	24-FEB-20
MET-DIS-ULTRA-MS-VA								
Water								
Batch	R5002146							
WG3280215-2	LCS							
Iron (Fe)-Dissolved			106.9		%		80-120	24-FEB-20
Phosphorus (P)-Dissolved			110.0		%		80-120	24-FEB-20
WG3280215-1	MB	NP						
Iron (Fe)-Dissolved			<0.0050		mg/L		0.005	24-FEB-20
Phosphorus (P)-Dissolved			<0.010		mg/L		0.01	24-FEB-20
MET-T-CCMS-VA								
Water								
Batch	R5003488							
WG3280543-3	DUP	L2419888-1						
Aluminum (Al)-Total		0.222	0.220		mg/L	1.0	20	24-FEB-20
Antimony (Sb)-Total		0.00010	0.00010		mg/L	0.0	20	24-FEB-20
Arsenic (As)-Total		0.00018	0.00014	J	mg/L	0.00004	0.0002	24-FEB-20
Barium (Ba)-Total		0.0140	0.0138		mg/L	0.9	20	24-FEB-20
Beryllium (Be)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	24-FEB-20
Bismuth (Bi)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	24-FEB-20
Boron (B)-Total		0.013	0.013		mg/L	3.7	20	24-FEB-20
Cadmium (Cd)-Total		<0.0000050	<0.0000050	RPD-NA	mg/L	N/A	20	24-FEB-20
Calcium (Ca)-Total		59.3	58.0		mg/L	2.1	20	24-FEB-20
Chromium (Cr)-Total		0.00048	0.00054		mg/L	11	20	24-FEB-20
Cobalt (Co)-Total		0.00014	0.00013		mg/L	3.9	20	24-FEB-20
Copper (Cu)-Total		0.00072	0.00079		mg/L	9.5	20	24-FEB-20
Lead (Pb)-Total		0.000082	0.000086		mg/L	4.8	20	24-FEB-20
Magnesium (Mg)-Total		6.98	6.97		mg/L	0.1	20	24-FEB-20
Manganese (Mn)-Total		0.0119	0.0123		mg/L	3.2	20	24-FEB-20
Molybdenum (Mo)-Total		0.00128	0.00123		mg/L	3.5	20	24-FEB-20

Quality Control Report

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-VA		Water						
Batch	R5003488							
WG3280543-3	DUP	L2419888-1						
Potassium (K)-Total		0.826	0.824		mg/L	0.3	20	24-FEB-20
Selenium (Se)-Total		0.000315	0.000296		mg/L	6.2	20	24-FEB-20
Silicon (Si)-Total		4.73	4.59		mg/L	2.9	20	24-FEB-20
Silver (Ag)-Total		0.000012	0.000014		mg/L	12	20	24-FEB-20
Sodium (Na)-Total		10.9	11.0		mg/L	0.2	20	24-FEB-20
Strontium (Sr)-Total		0.182	0.173		mg/L	4.7	20	24-FEB-20
Sulfur (S)-Total		27.4	27.1		mg/L	1.2	20	24-FEB-20
Thallium (Tl)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	24-FEB-20
Tin (Sn)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	24-FEB-20
Titanium (Ti)-Total		0.00783	0.00942		mg/L	18	20	24-FEB-20
Uranium (U)-Total		0.00124	0.00120		mg/L	3.2	20	24-FEB-20
Vanadium (V)-Total		0.00140	0.00146		mg/L	4.0	20	24-FEB-20
Zinc (Zn)-Total		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	24-FEB-20
WG3280543-2	LCS							
Aluminum (Al)-Total			99.1		%		80-120	24-FEB-20
Antimony (Sb)-Total			109.7		%		80-120	24-FEB-20
Arsenic (As)-Total			102.4		%		80-120	24-FEB-20
Barium (Ba)-Total			105.2		%		80-120	24-FEB-20
Beryllium (Be)-Total			96.4		%		80-120	24-FEB-20
Bismuth (Bi)-Total			106.2		%		80-120	24-FEB-20
Boron (B)-Total			97.3		%		80-120	24-FEB-20
Cadmium (Cd)-Total			100.0		%		80-120	24-FEB-20
Calcium (Ca)-Total			105.5		%		80-120	24-FEB-20
Chromium (Cr)-Total			104.2		%		80-120	24-FEB-20
Cobalt (Co)-Total			101.7		%		80-120	24-FEB-20
Copper (Cu)-Total			101.0		%		80-120	24-FEB-20
Lead (Pb)-Total			104.3		%		80-120	24-FEB-20
Magnesium (Mg)-Total			106.2		%		80-120	24-FEB-20
Manganese (Mn)-Total			103.6		%		80-120	24-FEB-20
Molybdenum (Mo)-Total			103.6		%		80-120	24-FEB-20
Nickel (Ni)-Total			99.3		%		80-120	24-FEB-20
Potassium (K)-Total			106.9		%		80-120	24-FEB-20
Selenium (Se)-Total			106.1		%		80-120	24-FEB-20
Silicon (Si)-Total			106.2		%		80-120	24-FEB-20

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-VA	Water							
Batch	R5003488							
WG3280543-2 LCS								
Silver (Ag)-Total			108.6		%		80-120	24-FEB-20
Sodium (Na)-Total			110.6		%		80-120	24-FEB-20
Strontium (Sr)-Total			103.3		%		80-120	24-FEB-20
Sulfur (S)-Total			111.8		%		80-120	24-FEB-20
Thallium (Tl)-Total			105.7		%		80-120	24-FEB-20
Tin (Sn)-Total			102.5		%		80-120	24-FEB-20
Titanium (Ti)-Total			102.9		%		80-120	24-FEB-20
Uranium (U)-Total			106.8		%		80-120	24-FEB-20
Vanadium (V)-Total			104.6		%		80-120	24-FEB-20
Zinc (Zn)-Total			104.9		%		80-120	24-FEB-20
WG3280543-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	24-FEB-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	24-FEB-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	24-FEB-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	24-FEB-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	24-FEB-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	24-FEB-20
Boron (B)-Total			<0.010		mg/L		0.01	24-FEB-20
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	24-FEB-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	24-FEB-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	24-FEB-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	24-FEB-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	24-FEB-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	24-FEB-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	24-FEB-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	24-FEB-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	24-FEB-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	24-FEB-20
Potassium (K)-Total			<0.050		mg/L		0.05	24-FEB-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	24-FEB-20
Silicon (Si)-Total			<0.10		mg/L		0.1	24-FEB-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	24-FEB-20
Sodium (Na)-Total			<0.050		mg/L		0.05	24-FEB-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	24-FEB-20

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-VA		Water						
Batch R5003488								
WG3280543-1 MB								
Sulfur (S)-Total			<0.50		mg/L		0.5	24-FEB-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	24-FEB-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	24-FEB-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	24-FEB-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	24-FEB-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	24-FEB-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	24-FEB-20
MET-TOT-ULTRA-MS-VA		Water						
Batch R5003488								
WG3280543-3 DUP		L2419888-1						
Iron (Fe)-Total		0.120	0.129		mg/L	7.6	20	24-FEB-20
Phosphorus (P)-Total		<0.030	<0.030	RPD-NA	mg/L	N/A	20	24-FEB-20
WG3280543-2 LCS								
Iron (Fe)-Total			104.2		%		80-120	24-FEB-20
Phosphorus (P)-Total			112.1		%		80-120	24-FEB-20
WG3280543-1 MB								
Iron (Fe)-Total			<0.0050		mg/L		0.005	24-FEB-20
Phosphorus (P)-Total			<0.030		mg/L		0.03	24-FEB-20
NO2-L-IC-N-VA		Water						
Batch R5001031								
WG3280005-3 DUP		L2419888-1						
Nitrite (as N)		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	22-FEB-20
WG3280005-2 LCS								
Nitrite (as N)			94.7		%		90-110	22-FEB-20
WG3280005-1 MB								
Nitrite (as N)			<0.0010		mg/L		0.001	22-FEB-20
WG3280005-5 MS		L2419888-1						
Nitrite (as N)			99.9		%		75-125	22-FEB-20
NO3-U-IC-N-VA		Water						
Batch R5001031								
WG3280005-3 DUP		L2419888-1						
Nitrate (as N)		0.449	0.448		mg/L	0.4	20	22-FEB-20
WG3280005-2 LCS								
Nitrate (as N)			98.3		%		90-110	22-FEB-20
WG3280005-1 MB								
Nitrate (as N)			<0.0030		mg/L		0.003	22-FEB-20

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-U-IC-N-VA								
Water								
Batch	R5001031							
WG3280005-5	MS	L2419888-1						
Nitrate (as N)			102.0		%		75-125	22-FEB-20
PAH-ME-MS-VA								
Water								
Batch	R4998608							
WG3280144-2	LCS							
Acenaphthene			100.4		%		60-130	24-FEB-20
Acenaphthylene			107.2		%		60-130	24-FEB-20
Acridine			106.2		%		60-130	24-FEB-20
Anthracene			107.4		%		60-130	24-FEB-20
Benz(a)anthracene			110.5		%		60-130	24-FEB-20
Benzo(a)pyrene			82.6		%		60-130	24-FEB-20
Benzo(b&j)fluoranthene			73.6		%		60-130	24-FEB-20
Benzo(g,h,i)perylene			108.6		%		60-130	24-FEB-20
Benzo(k)fluoranthene			83.4		%		60-130	24-FEB-20
Chrysene			103.9		%		60-130	24-FEB-20
Dibenz(a,h)anthracene			104.5		%		60-130	24-FEB-20
Fluoranthene			108.5		%		60-130	24-FEB-20
Fluorene			111.8		%		60-130	24-FEB-20
Indeno(1,2,3-c,d)pyrene			120.6		%		60-130	24-FEB-20
1-Methylnaphthalene			97.8		%		60-130	24-FEB-20
2-Methylnaphthalene			95.9		%		60-130	24-FEB-20
Naphthalene			92.5		%		50-130	24-FEB-20
Phenanthrene			110.2		%		60-130	24-FEB-20
Pyrene			110.5		%		60-130	24-FEB-20
Quinoline			111.7		%		60-130	24-FEB-20
WG3280144-1	MB							
Acenaphthene			<0.000010		mg/L		0.00001	24-FEB-20
Acenaphthylene			<0.000010		mg/L		0.00001	24-FEB-20
Acridine			<0.000010		mg/L		0.00001	24-FEB-20
Anthracene			<0.000010		mg/L		0.00001	24-FEB-20
Benz(a)anthracene			<0.000010		mg/L		0.00001	24-FEB-20
Benzo(a)pyrene			<0.0000050		mg/L		0.000005	24-FEB-20
Benzo(b&j)fluoranthene			<0.000010		mg/L		0.00001	24-FEB-20
Benzo(g,h,i)perylene			<0.000010		mg/L		0.00001	24-FEB-20
Benzo(k)fluoranthene			<0.000010		mg/L		0.00001	24-FEB-20



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TDS-VA Water

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-VA								
Water								
Batch	R5002506							
WG3280014-3	DUP	L2419888-1						
Total Dissolved Solids		218	231		mg/L	6.0	20	22-FEB-20
WG3280014-2	LCS							
Total Dissolved Solids			102.2		%		85-115	22-FEB-20
WG3280014-1	MB							
Total Dissolved Solids			<10		mg/L		10	22-FEB-20
TSS-VA								
Water								
Batch	R5002442							
WG3280013-3	DUP	L2419888-1						
Total Suspended Solids		4.8	4.6		mg/L	4.3	20	22-FEB-20
WG3280013-2	LCS							
Total Suspended Solids			97.6		%		85-115	22-FEB-20
WG3280013-1	MB							
Total Suspended Solids			<3.0		mg/L		3	22-FEB-20
TURBIDITY-VA								
Water								
Batch	R5001209							
WG3280113-2	CRM	VA-FORM-40						
Turbidity			105.6		%		85-115	23-FEB-20
WG3280113-1	MB							
Turbidity			<0.10		NTU		0.1	23-FEB-20

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH by Meter (Automated)	1	21-FEB-20 09:30	22-FEB-20 12:06	0.25	27	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:

Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2419888 were received on 22-FEB-20 08:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

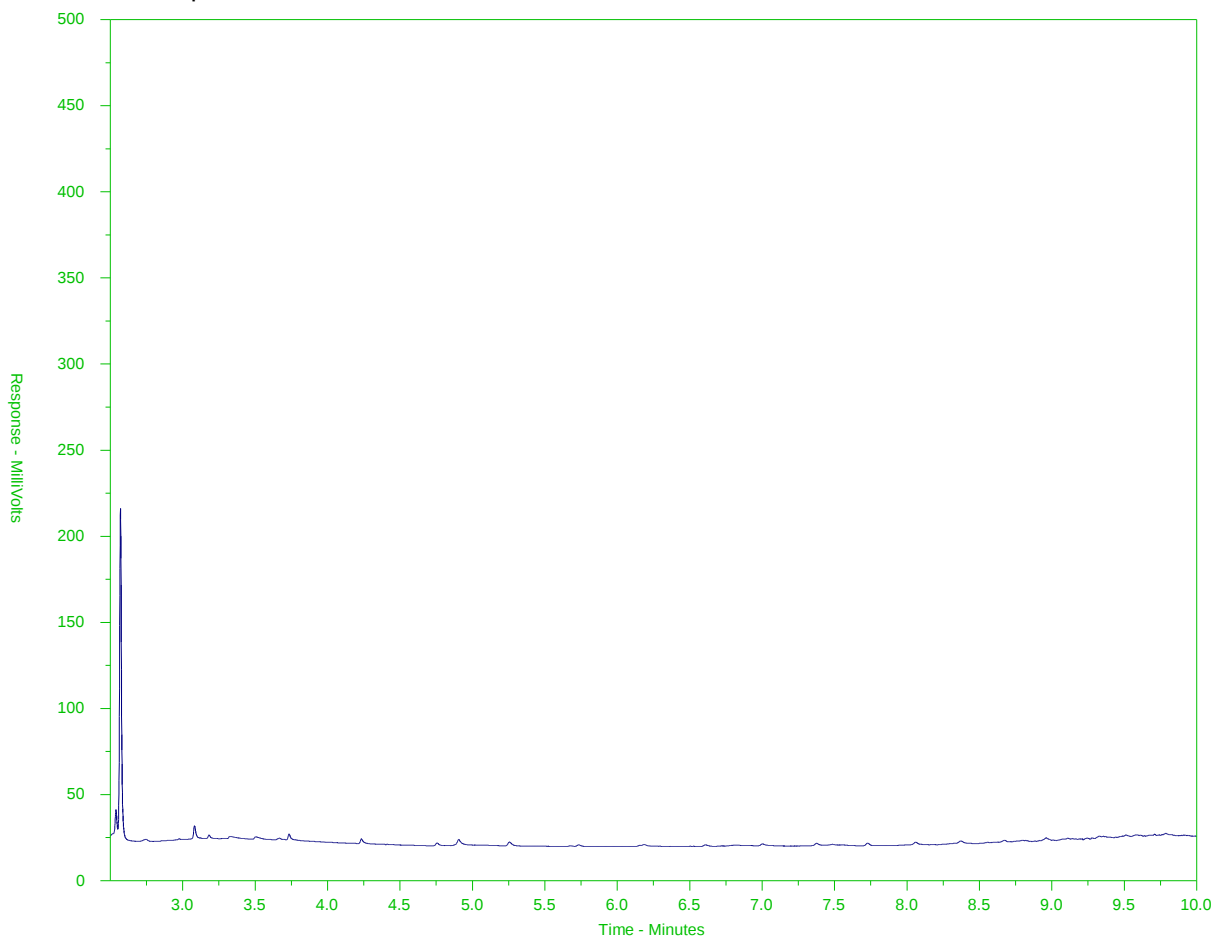
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

BC EPH HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2419888-L-1
Client Sample ID: E319172



← EPH10-19 →		← EPH19-32 →	
nC10		nC19	nC32
174°C		330°C	467°C
346°F		626°F	873°F
← Gasoline →		← Motor Oils/ Lube Oils/ Grease →	
← Diesel/ Jet Fuels →			

The BC EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and three n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

Note: This chromatogram was produced using GC conditions that are specific to the ALS Canada EPH method. Refer to the ALS Canada EPH Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

WATER, GENERAL CHEMISTRY AND BACTERIOLOGICAL REQUISITION

ALS Global

Province Of British Columbia

Ministry of Environment

Req # 50247699

Urgent?	Csr No.	Office 10	Client CL
Study	Project N/A		
Lab	ALS Global		
Ministry Contact	RMARTINK Rusto, Martinka		
Sampler	Rusto Martinka		
Signature			
EMS Id	E319172	Well Plate #	
Location	MW19-2		

Sampling Agency	
Code 10	Name VAN ISLAND - Nanaimo
Address	2080-A LABVIEW ROAD
City	NANAIMO
Postal Code	V9T6J9
Phone	(250) 751-3100
Number of Containers	

Instructions To Lab

State	Descriptor	Collection Method	
No.	Class	Collection Start	Collection End
		YYYY-MM-DD HH:MI	YYYY-MM-DD HH:MI
		Upper	Lower
		Tide	Comment
1		2020-02-21	
2		9:30	
3			
4			
5			
6			

GENERAL (250 mL PLASTIC)

☐	Acidity pH 8.3
☐	Alkalinity Titration Curve
☒	Alkalinity: Total: pH 4.5
☐	Alkalinity: Phenolphthalein
☐	(500 mL Plastic) Biochemical Oxygen Demand (BOD)
☐	Bromide
☐	(500 mL Plastic) Carb. Biochem. Oxygen Demand (CBOD)
☒	Carbon: TIC
☒	Chloride
☒	Colour: True
☒	Fluoride
☒	Nitrogen: Nitrate and Nitrite
☒	Nitrogen: Nitrate
☒	Nitrogen: Nitrite
☒	pH
☐	Phosphorus: Diss. ortho-phosphate
☒	(500 mL Plastic) Residue: Filterable (TDS)
☒	(500 mL Plastic) Residue: Nonfilterable (TSS) Subsample 3 mg/L LOR
☐	(500 mL Plastic) Residue: Nonfilterable, Fixed
☐	(500 mL Plastic) Residue: Total (TS)
☒	Specific Conductance
☒	Turbidity
☒	Sulphate

GENERAL NUTRIENTS (125 mL AMBER GLASS) - H2SO4

☐	Carbon: TOC
☐	Chemical Oxygen Demand (COD)
☐	Nitrogen: Ammonia
☐	Nitrogen: Total
☐	Nitrogen: Total Kjeldahl (Calc)
☐	Nitrogen: Total Organic
☐	Phosphorus: Total

GENERAL (125 mL AMBER GLASS) - FIELD FILTER, H2SO4

☐	Carbon: DIC (Field Filter)
☐	Carbon: DOC (FF, H2SO4)
☐	Nitrogen: Dissolved Kjeldahl (Calc) (FF, H2SO4)
☐	Nitrogen: Total Dissolved (FF, H2SO4)
☐	Phosphorus: Total Dissolved (FF, H2SO4)

METALS: TOTAL

High	Low	
☒	☐	Metal Pkg. (ICPMS) - HIGH (60 mL Plastic) - HNO3
☐	☐	Metal Pkg. (ICPMS) - LOW (60 mL Plastic) - HNO3
☒	☐	Mercury - 40mL Glass, HCl
☒	☐	Hardness (60 mL Plastic) - HNO3

METALS: DISSOLVED

High	Low	
☒	☐	Metal Pkg (ICPMS) - HIGH (60 mL Plastic)-Field Filter, HNO3
☐	☐	Metal Pkg. (ICPMS) - LOW (60 mL Plastic)-Field Filter, HNO3
☒	☐	Mercury - 40mL Glass, Field Filter, HCl
☒	☐	Hardness (60 mL Plastic) - Field Filter, HNO3

SPECIFIC Tests

☐	Obs Well Package
☐	Cyanide: SAD (60 mL Plastic + NaOH)
☐	Cyanide: WAD (60 mL Plastic + NaOH)
☐	Sulphide: Total (125 mL Plastic, ZnAc & NaOH)
☐	Residue: Nonfilterable (TSS) -Whole Bottle - 1 mg/L LOR (150 mL Plastic)
☐	Chlorophyll a (250 mL Brown Plastic Bottle or Filter) Vol:
☐	Phaeophytin (250 mL Brown Plastic Bottle or Filter) Vol:

ORGANICS

☐	BTEX (2 X 40 mL glass vials, NaHSO4 or Na2S2O3, No headspace)
☐	VOC Full List (2 X 40 mL glass vials, NaHSO4 or Na2S2O3, No headspace)
☐	Volatile Hydrocarbons (VH) (2X40 mL glass vials, NaHSO4 or Na2S2O3, No headspace)
☐	Trihalomethanes (THM) (2 X 40 mL glass vials, NaHSO4 or Na2S2O3, No headspace)
☒	VPH (2 X 40 mL glass vials, NaHSO4 or Na2S2O3, No headspace)
☒	EPH (2 X 100 mL Amber Glass, NaHSO4)
☒	PAH (2 X 100 mL Amber Glass, NaHSO4)
☒	LEPH/HEPH (Calc) (2 X 100 mL Amber Glass, NaHSO4)
☐	Oil & Grease (2 X 250 mL Amber Glass, 2 mL 1:1 HCl or 1:1 H2SO4)
☐	Mineral Oil & Grease (2 x 250 mL Amber Glass, 2 mL 1:1 HCl or 1:1 H2SO4)
☐	Organochlorine Pesticides (OCP) (2 X 500 mL Amber Glass)
☐	Organophosphorus Pesticides (OPP) (2 X 500 mL Amber Glass)
☐	Polychlorinated Biphenyls (PCBs) (2 X 500 mL Amber Glass)
☐	Chlorophenols (Tri, Tetra & Penta) (2 X 500 mL Amber Glass, C6H8O6 & NaHSO4)
☐	Phenolics, Chlorinated (2 X 500 mL Amber Glass, C6H8O6 & NaHSO4)
☐	Phenolics, Non-Chlorinated (2 X 500 mL Amber Glass, C6H8O6 & NaHSO4)
☐	Phenols, Colorimetric (125 mL Amber Glass, H2SO4)
☐	Acid Extractable Herbicides (2 X 1 L Amber Glass, NaHSO4)
☐	Resin Acids (2 X 500 mL Amber Glass, C6H8O6 & NaHSO4)
☐	Fatty Acids (2 X 500 mL Amber Glass, C6H8O6 & NaHSO4)

BACTERIOLOGY

☐	E. coli - MF
☐	Enterococci - MF
☐	Fecal coliform - MF
☐	Fecal coliform - MPN
☐	Fecal streptococci - MF
☐	Total coliform - MF
☐	Total coliform - MPN

OTHER Tests



L2419888-COFC

Smp No.	FIELD TEST Details	Method Results	Units
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SEND RESULTS TO:

RUSTO, MARTINKA @ 60V.BC.CA

Report ID: EMSR0900

FEB 22 2020 3:28:30 AM Ice pack

Date: 2020-02-20 09:42

Rush analysis; RESULTS REQUIRED BY END OF DAY MONDAY FEB 24