

Your Project #: LEECH  
Your C.O.C. #: 08459687

**Attention: Christoph Moch**

Capital Regional District  
Water Department  
479 Island Hwy  
Victoria, BC  
Canada V9B 1H7

**Report Date: 2018/12/20**  
Report #: R2666868  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B8A9288**

**Received: 2018/12/14, 11:23**

Sample Matrix: DRINKING WATER  
# Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hardness Total (calculated as CaCO <sub>3</sub> ) (1)	5	N/A	2018/12/17	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO <sub>3</sub> ) (1)	1	N/A	2018/12/19	BBY WI-00033	Auto Calc
Mercury (Total) by CVAf	6	2018/12/18	2018/12/18	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	5	N/A	2018/12/17	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2018/12/19	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	5	N/A	2018/12/17	BBY7SOP-00003,	EPA 6020b R2 m
Elements by CRC ICPMS (total)	1	2018/12/18	2018/12/19	BBY7SOP-00003 BBY7SOP-00002	EPA 6020b R2 m

**Remarks:**

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing. Maxxam is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

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**CERTIFICATE OF ANALYSIS**

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Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.  
Debbie Nordbruget, Project Manager  
Email: DNordbruget@maxxam.ca  
Phone# (250)385-6112

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This report has been generated and distributed using a secure automated process.  
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B8A9288  
Report Date: 2018/12/20

Capital Regional District  
Client Project #: LEECH

### ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID					UY6537		
Sampling Date					2018/12/07 12:20		
COC Number					08459687		
	UNITS	MAC	AO	OG	WEEKS OUT	RDL	QC Batch
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	-	-	100	242	3.0	9269427
Total Antimony (Sb)	ug/L	6	-	-	<0.50	0.50	9269427
Total Arsenic (As)	ug/L	10	-	-	0.12	0.10	9269427
Total Barium (Ba)	ug/L	1000	-	-	4.0	1.0	9269427
Total Beryllium (Be)	ug/L	-	-	-	<0.10	0.10	9269427
Total Bismuth (Bi)	ug/L	-	-	-	<1.0	1.0	9269427
Total Boron (B)	ug/L	5000	-	-	<50	50	9269427
Total Cadmium (Cd)	ug/L	5	-	-	<0.010	0.010	9269427
Total Chromium (Cr)	ug/L	50	-	-	<1.0	1.0	9269427
Total Cobalt (Co)	ug/L	-	-	-	<0.20	0.20	9269427
Total Copper (Cu)	ug/L	-	1000	-	1.08	0.50	9269427
Total Iron (Fe)	ug/L	-	300	-	185	10	9269427
Total Lead (Pb)	ug/L	10	-	-	<0.20	0.20	9269427
Total Lithium (Li)	ug/L	-	-	-	<2.0	2.0	9269427
Total Manganese (Mn)	ug/L	-	50	-	6.4	1.0	9269427
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	1.0	9269427
Total Nickel (Ni)	ug/L	-	-	-	<1.0	1.0	9269427
Total Selenium (Se)	ug/L	50	-	-	<0.10	0.10	9269427
Total Silicon (Si)	ug/L	-	-	-	2150	100	9269427
Total Silver (Ag)	ug/L	-	-	-	<0.020	0.020	9269427
Total Strontium (Sr)	ug/L	-	-	-	12.9	1.0	9269427
Total Thallium (Tl)	ug/L	-	-	-	<0.010	0.010	9269427
Total Tin (Sn)	ug/L	-	-	-	<5.0	5.0	9269427
Total Titanium (Ti)	ug/L	-	-	-	<5.0	5.0	9269427
Total Uranium (U)	ug/L	20	-	-	<0.10	0.10	9269427
Total Vanadium (V)	ug/L	-	-	-	<5.0	5.0	9269427
Total Zinc (Zn)	ug/L	-	5000	-	<5.0	5.0	9269427
Total Zirconium (Zr)	ug/L	-	-	-	<0.10	0.10	9269427
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							

Maxxam Job #: B8A9288  
Report Date: 2018/12/20

Capital Regional District  
Client Project #: LEECH

**TOT. METALS W/ CV HG FOR DRINKING WATER (DRINKING WATER)**

Maxxam ID					UY6536			UY6537		
Sampling Date					2018/12/07 13:00			2018/12/07 12:20		
COC Number					08459687			08459687		
	UNITS	MAC	AO	OG	W.LEECH	RDL	QC Batch	WEEKS OUT	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	-	-	-	6.95	0.50	9266236	6.99	0.50	9266236
Elements										
Total Mercury (Hg)	ug/L	1	-	-	<0.0020	0.0020	9269449	0.0037	0.0020	9269467
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	-	-	100	71.4	3.0	9268598			
Total Antimony (Sb)	ug/L	6	-	-	<0.50	0.50	9268598			
Total Arsenic (As)	ug/L	10	-	-	0.13	0.10	9268598			
Total Barium (Ba)	ug/L	1000	-	-	3.4	1.0	9268598			
Total Beryllium (Be)	ug/L	-	-	-	<0.10	0.10	9268598			
Total Bismuth (Bi)	ug/L	-	-	-	<1.0	1.0	9268598			
Total Boron (B)	ug/L	5000	-	-	<50	50	9268598			
Total Cadmium (Cd)	ug/L	5	-	-	<0.010	0.010	9268598			
Total Chromium (Cr)	ug/L	50	-	-	<1.0	1.0	9268598			
Total Cobalt (Co)	ug/L	-	-	-	<0.20	0.20	9268598			
Total Copper (Cu)	ug/L	-	1000	-	0.72	0.20	9268598			
Total Iron (Fe)	ug/L	-	300	-	26.8	5.0	9268598			
Total Lead (Pb)	ug/L	10	-	-	<0.20	0.20	9268598			
Total Manganese (Mn)	ug/L	-	50	-	<1.0	1.0	9268598			
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	1.0	9268598			
Total Nickel (Ni)	ug/L	-	-	-	<1.0	1.0	9268598			
Total Selenium (Se)	ug/L	50	-	-	<0.10	0.10	9268598			
Total Silicon (Si)	ug/L	-	-	-	2740	100	9268598			
Total Silver (Ag)	ug/L	-	-	-	<0.020	0.020	9268598			
Total Strontium (Sr)	ug/L	-	-	-	14.4	1.0	9268598			
Total Thallium (Tl)	ug/L	-	-	-	<0.010	0.010	9268598			
Total Tin (Sn)	ug/L	-	-	-	<5.0	5.0	9268598			
Total Titanium (Ti)	ug/L	-	-	-	<5.0	5.0	9268598			
Total Uranium (U)	ug/L	20	-	-	<0.10	0.10	9268598			
Total Vanadium (V)	ug/L	-	-	-	<5.0	5.0	9268598			
Total Zinc (Zn)	ug/L	-	5000	-	<5.0	5.0	9268598			
Total Zirconium (Zr)	ug/L	-	-	-	<0.10	0.10	9268598			
Total Calcium (Ca)	mg/L	-	-	-	2.05	0.050	9266279	1.92	0.050	9266279
Total Magnesium (Mg)	mg/L	-	-	-	0.443	0.050	9266279	0.534	0.050	9266279
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

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**TOT. METALS W/ CV HG FOR DRINKING WATER (DRINKING WATER)**

Maxxam ID					UY6536			UY6537		
Sampling Date					2018/12/07 13:00			2018/12/07 12:20		
COC Number					08459687			08459687		
	UNITS	MAC	AO	OG	W.LEECH	RDL	QC Batch	WEEKS OUT	RDL	QC Batch
Total Potassium (K)	mg/L	-	-	-	0.225	0.050	9266279	0.115	0.050	9266279
Total Sodium (Na)	mg/L	-	200	-	2.14	0.050	9266279	1.55	0.050	9266279
Total Sulphur (S)	mg/L	-	-	-	<3.0	3.0	9266279	<3.0	3.0	9266279
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

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**TOT. METALS W/ CV HG FOR DRINKING WATER (DRINKING WATER)**

Maxxam ID					UY6538		UY6539	UY6540	UY6541		
Sampling Date					2018/12/07 11:15		2018/12/07 10:40	2018/12/07 09:15	2018/12/07 13:30		
COC Number					08459687		08459687	08459687	08459687		
	UNITS	MAC	AO	OG	TUNNEL	QC Batch	LEECH HEAD	CRAGG CREEK	CHRIS CREEK	RDL	QC Batch
Calculated Parameters											
Total Hardness (CaCO3)	mg/L	-	-	-	8.66	9266236	7.36	8.04	7.26	0.50	9266236
Elements											
Total Mercury (Hg)	ug/L	1	-	-	<0.0020	9269449	<0.0020	<0.0020	<0.0020	0.0020	9269467
Total Metals by ICPMS											
Total Aluminum (Al)	ug/L	-	-	100	75.7	9268598	139	69.8	50.6	3.0	9268598
Total Antimony (Sb)	ug/L	6	-	-	<0.50	9268598	<0.50	<0.50	<0.50	0.50	9268598
Total Arsenic (As)	ug/L	10	-	-	0.11	9268598	<0.10	<0.10	<0.10	0.10	9268598
Total Barium (Ba)	ug/L	1000	-	-	2.7	9268598	3.1	1.9	1.9	1.0	9268598
Total Beryllium (Be)	ug/L	-	-	-	<0.10	9268598	<0.10	<0.10	<0.10	0.10	9268598
Total Bismuth (Bi)	ug/L	-	-	-	<1.0	9268598	<1.0	<1.0	<1.0	1.0	9268598
Total Boron (B)	ug/L	5000	-	-	<50	9268598	<50	<50	<50	50	9268598
Total Cadmium (Cd)	ug/L	5	-	-	<0.010	9268598	<0.010	<0.010	<0.010	0.010	9268598
Total Chromium (Cr)	ug/L	50	-	-	<1.0	9268598	<1.0	<1.0	<1.0	1.0	9268598
Total Cobalt (Co)	ug/L	-	-	-	<0.20	9268598	<0.20	<0.20	<0.20	0.20	9268598
Total Copper (Cu)	ug/L	-	1000	-	0.54	9268598	1.82	0.68	0.41	0.20	9268598
Total Iron (Fe)	ug/L	-	300	-	28.9	9268598	92.6	18.6	16.0	5.0	9268598
Total Lead (Pb)	ug/L	10	-	-	<0.20	9268598	<0.20	<0.20	<0.20	0.20	9268598
Total Manganese (Mn)	ug/L	-	50	-	<1.0	9268598	2.3	<1.0	<1.0	1.0	9268598
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	9268598	<1.0	<1.0	<1.0	1.0	9268598
Total Nickel (Ni)	ug/L	-	-	-	<1.0	9268598	<1.0	<1.0	<1.0	1.0	9268598
Total Selenium (Se)	ug/L	50	-	-	<0.10	9268598	<0.10	<0.10	<0.10	0.10	9268598
Total Silicon (Si)	ug/L	-	-	-	2410	9268598	2200	2000	2240	100	9268598
Total Silver (Ag)	ug/L	-	-	-	<0.020	9268598	0.026	<0.020	<0.020	0.020	9268598
Total Strontium (Sr)	ug/L	-	-	-	16.0	9268598	12.8	11.0	8.5	1.0	9268598
Total Thallium (Tl)	ug/L	-	-	-	<0.010	9268598	<0.010	<0.010	<0.010	0.010	9268598
Total Tin (Sn)	ug/L	-	-	-	<5.0	9268598	<5.0	<5.0	<5.0	5.0	9268598
Total Titanium (Ti)	ug/L	-	-	-	<5.0	9268598	<5.0	<5.0	<5.0	5.0	9268598
Total Uranium (U)	ug/L	20	-	-	<0.10	9268598	<0.10	<0.10	<0.10	0.10	9268598
Total Vanadium (V)	ug/L	-	-	-	<5.0	9268598	<5.0	<5.0	<5.0	5.0	9268598
Total Zinc (Zn)	ug/L	-	5000	-	<5.0	9268598	9.2	6.5	<5.0	5.0	9268598
Total Zirconium (Zr)	ug/L	-	-	-	<0.10	9268598	<0.10	<0.10	<0.10	0.10	9268598
Total Calcium (Ca)	mg/L	-	-	-	2.57	9266279	2.05	2.28	1.93	0.050	9266279
Total Magnesium (Mg)	mg/L	-	-	-	0.543	9266279	0.542	0.571	0.596	0.050	9266279
No Fill	No Exceedance										
Grey	Exceeds 1 criteria policy/level										
Black	Exceeds both criteria/levels										
RDL = Reportable Detection Limit											

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**TOT. METALS W/ CV HG FOR DRINKING WATER (DRINKING WATER)**

Maxxam ID					UY6538		UY6539	UY6540	UY6541		
Sampling Date					2018/12/07 11:15		2018/12/07 10:40	2018/12/07 09:15	2018/12/07 13:30		
COC Number					08459687		08459687	08459687	08459687		
	UNITS	MAC	AO	OG	TUNNEL	QC Batch	LEECH HEAD	CRAGG CREEK	CHRIS CREEK	RDL	QC Batch
Total Potassium (K)	mg/L	-	-	-	0.131	9266279	0.107	<0.050	<0.050	0.050	9266279
Total Sodium (Na)	mg/L	-	200	-	1.77	9266279	1.52	1.36	1.38	0.050	9266279
Total Sulphur (S)	mg/L	-	-	-	<3.0	9266279	<3.0	<3.0	<3.0	3.0	9266279
No Fill	No Exceedance										
Grey	Exceeds 1 criteria policy/level										
Black	Exceeds both criteria/levels										
RDL = Reportable Detection Limit											

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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	7.0°C
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MAC,AO,OG: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, February 2017.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG)  
It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

### Turbidity Guidelines:

1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.
4. To ensure effectiveness of disinfection and for good operation of the distribution system, it is recommended that water entering the distribution system have turbidity levels of 1.0 NTU or less.

Measurement of Uncertainty has not been accounted for when stating conformity to the selected criteria, where applicable.

**Results relate only to the items tested.**



Maxxam Job #: B8A9288  
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## QUALITY ASSURANCE REPORT

Capital Regional District  
Client Project #: LEECH

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9268598	Total Aluminum (Al)	2018/12/17	101	80 - 120	103	80 - 120	<3.0	ug/L	NC	20
9268598	Total Antimony (Sb)	2018/12/17	102	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
9268598	Total Arsenic (As)	2018/12/17	102	80 - 120	105	80 - 120	<0.10	ug/L	NC	20
9268598	Total Barium (Ba)	2018/12/17	97	80 - 120	98	80 - 120	<1.0	ug/L	2.1	20
9268598	Total Beryllium (Be)	2018/12/17	99	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
9268598	Total Bismuth (Bi)	2018/12/17	98	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
9268598	Total Boron (B)	2018/12/17	98	80 - 120	98	80 - 120	<50	ug/L	NC	20
9268598	Total Cadmium (Cd)	2018/12/17	104	80 - 120	105	80 - 120	<0.010	ug/L	NC	20
9268598	Total Chromium (Cr)	2018/12/17	102	80 - 120	104	80 - 120	<1.0	ug/L	NC	20
9268598	Total Cobalt (Co)	2018/12/17	102	80 - 120	104	80 - 120	<0.20	ug/L	NC	20
9268598	Total Copper (Cu)	2018/12/17	NC	80 - 120	102	80 - 120	<0.20	ug/L	2.1	20
9268598	Total Iron (Fe)	2018/12/17	105	80 - 120	107	80 - 120	<5.0	ug/L	7.0	20
9268598	Total Lead (Pb)	2018/12/17	101	80 - 120	101	80 - 120	<0.20	ug/L	0.71	20
9268598	Total Manganese (Mn)	2018/12/17	103	80 - 120	105	80 - 120	<1.0	ug/L	1.1	20
9268598	Total Molybdenum (Mo)	2018/12/17	102	80 - 120	104	80 - 120	<1.0	ug/L	NC	20
9268598	Total Nickel (Ni)	2018/12/17	104	80 - 120	104	80 - 120	<1.0	ug/L	NC	20
9268598	Total Selenium (Se)	2018/12/17	103	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
9268598	Total Silicon (Si)	2018/12/17	98	80 - 120	101	80 - 120	<100	ug/L	1.9	20
9268598	Total Silver (Ag)	2018/12/17	102	80 - 120	105	80 - 120	<0.020	ug/L	NC	20
9268598	Total Strontium (Sr)	2018/12/17	99	80 - 120	101	80 - 120	<1.0	ug/L	0.90	20
9268598	Total Thallium (Tl)	2018/12/17	100	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
9268598	Total Tin (Sn)	2018/12/17	101	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
9268598	Total Titanium (Ti)	2018/12/17	101	80 - 120	104	80 - 120	<5.0	ug/L	NC	20
9268598	Total Uranium (U)	2018/12/17	103	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
9268598	Total Vanadium (V)	2018/12/17	104	80 - 120	104	80 - 120	<5.0	ug/L	NC	20
9268598	Total Zinc (Zn)	2018/12/17	108	80 - 120	110	80 - 120	<5.0	ug/L	4.7	20
9268598	Total Zirconium (Zr)	2018/12/17	101	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
9269427	Total Aluminum (Al)	2018/12/19	106	80 - 120	105	80 - 120	<3.0	ug/L	13	20
9269427	Total Antimony (Sb)	2018/12/19	104	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
9269427	Total Arsenic (As)	2018/12/19	106	80 - 120	104	80 - 120	<0.10	ug/L	0.48	20
9269427	Total Barium (Ba)	2018/12/19	106	80 - 120	106	80 - 120	<1.0	ug/L	0.23	20
9269427	Total Beryllium (Be)	2018/12/19	103	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
9269427	Total Bismuth (Bi)	2018/12/19	100	80 - 120	101	80 - 120	<1.0	ug/L	NC	20

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# QUALITY ASSURANCE REPORT(CONT'D)

Capital Regional District  
Client Project #: LEECH

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9269427	Total Boron (B)	2018/12/19	101	80 - 120	101	80 - 120	<50	ug/L	NC	20
9269427	Total Cadmium (Cd)	2018/12/19	105	80 - 120	104	80 - 120	<0.010	ug/L	NC	20
9269427	Total Chromium (Cr)	2018/12/19	101	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
9269427	Total Cobalt (Co)	2018/12/19	100	80 - 120	101	80 - 120	<0.20	ug/L	4.7	20
9269427	Total Copper (Cu)	2018/12/19	96	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
9269427	Total Iron (Fe)	2018/12/19	102	80 - 120	106	80 - 120	<10	ug/L	1.1	20
9269427	Total Lead (Pb)	2018/12/19	101	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
9269427	Total Lithium (Li)	2018/12/19	100	80 - 120	100	80 - 120	<2.0	ug/L	1.3	20
9269427	Total Manganese (Mn)	2018/12/19	NC	80 - 120	104	80 - 120	<1.0	ug/L	1.3	20
9269427	Total Molybdenum (Mo)	2018/12/19	105	80 - 120	105	80 - 120	<1.0	ug/L	0.57	20
9269427	Total Nickel (Ni)	2018/12/19	101	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
9269427	Total Selenium (Se)	2018/12/19	105	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
9269427	Total Silicon (Si)	2018/12/19	NC	80 - 120	104	80 - 120	<100	ug/L	1.6	20
9269427	Total Silver (Ag)	2018/12/19	103	80 - 120	103	80 - 120	<0.020	ug/L	NC	20
9269427	Total Strontium (Sr)	2018/12/19	105	80 - 120	103	80 - 120	<1.0	ug/L	0.18	20
9269427	Total Thallium (Tl)	2018/12/19	103	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
9269427	Total Tin (Sn)	2018/12/19	101	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
9269427	Total Titanium (Ti)	2018/12/19	106	80 - 120	105	80 - 120	<5.0	ug/L	NC	20
9269427	Total Uranium (U)	2018/12/19	102	80 - 120	102	80 - 120	<0.10	ug/L	0.80	20
9269427	Total Vanadium (V)	2018/12/19	103	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
9269427	Total Zinc (Zn)	2018/12/19	105	80 - 120	105	80 - 120	<5.0	ug/L	NC	20
9269427	Total Zirconium (Zr)	2018/12/19	94	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
9269449	Total Mercury (Hg)	2018/12/18	95	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
9269467	Total Mercury (Hg)	2018/12/18	97	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

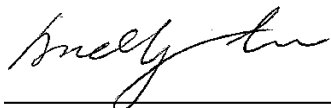
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

Maxxam Job #: B8A9288  
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Capital Regional District  
Client Project #: LEECH

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

## CHAIN OF CUSTODY RECORD

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5. Toll Free (800) 665-8566

COC #



08459687

BBY FCD-00077/05

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Invoice Information		Report Information (if differs from Invoice)		Project Information (where applicable)		Lead Time (TAT) Required																																				
Company Name: <u>Capital Regional District</u>	Company Name: <u>Capital Regional District</u>	Quotation #:	<input checked="" type="checkbox"/> Regular TAT 5 days (Most analyses)		PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS																																					
Contact Name: <u>Christoph Moch</u>	Contact Name: <u>Christoph Moch, Jessica Dupuis, Jennifer Blaney</u>	P.O. #/ AFE#:	Rush TAT (Surcharges will be applied)		<input type="checkbox"/> Same Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Days																																					
Address: <u>479 Island Highway</u> <u>Victoria, BC PC: V9B 1H7</u>	Address: _____ PC: _____	Project #: <u>Leech</u>	Date Required:																																							
Phone: <u>250-474-9603</u>	Phone: <u>CM 250-474-9603; JD 250-474-9643; JB 250-474-9680</u>	Site Location:	Rush Confirmation #:																																							
Email: <u>cmoch@crd.bc.ca</u>	Email: <u>cmoch@crd.bc.ca; jdupuis@crd.bc.ca; jblaney@crd.bc.ca</u>	Site #:	LABORATORY USE ONLY																																							
Regulatory Criteria		Special Instructions		Analysis Requested		CUSTODY SEAL Y / N																																				
<input type="checkbox"/> BC CSR Soil <input type="checkbox"/> BC CSR Water <input type="checkbox"/> CCME (Specify) <input type="checkbox"/> Other (Specify) <input checked="" type="checkbox"/> Drinking Water <input type="checkbox"/> BC Water Quality		<input type="checkbox"/> Return Cooler <input type="checkbox"/> Ship Sample Bottles (Please Specify)		<input type="checkbox"/> VOC/VPH <input type="checkbox"/> MTBE <input type="checkbox"/> TEH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/> BTEX/F3 <input type="checkbox"/> F2 - F4 <input type="checkbox"/> CCME-PHC <input type="checkbox"/> BTEX/F3 <input type="checkbox"/> F2 - F4 <input type="checkbox"/> Dissolved Metals <input type="checkbox"/> Filtered? <input type="checkbox"/> Preserved? <input type="checkbox"/> Dissolved Mercury <input type="checkbox"/> Filtered? <input type="checkbox"/> Preserved? <input type="checkbox"/> Total Metals <input type="checkbox"/> Field Preserved? <input checked="" type="checkbox"/> X <input type="checkbox"/> Total Mercury <input type="checkbox"/> Field Preserved? <input checked="" type="checkbox"/> X <input type="checkbox"/> Chloride <input type="checkbox"/> Fluoride <input type="checkbox"/> Sulphate <input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> BOD <input type="checkbox"/> COD <input type="checkbox"/> pH <input type="checkbox"/> Conductivity <input type="checkbox"/> Alkalinity <input type="checkbox"/> Nitrite <input type="checkbox"/> Nitrate <input type="checkbox"/> Ammonia <input type="checkbox"/> Bromate <input type="checkbox"/> Bromide <input type="checkbox"/> TOC <input type="checkbox"/> DBP <sub>5</sub> (THM <sub>5</sub> ) <input type="checkbox"/> # OF CONTAINERS SUBMITTED <input type="checkbox"/> HOLD - DO NOT ANALYZE		<input type="checkbox"/> Present <input type="checkbox"/> Intact <input type="checkbox"/> COOLING MEDIA PRESENT <input checked="" type="checkbox"/> Y / N <input type="checkbox"/> COMMENTS																																				
SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM																																										
Sample Identification	Lab Identification	Date Sampled (YYYY/MM/DD)	Time Sampled (HH:MM)	Matrix	BTEX/VPH	MTBE	TEH	LEPH/HEPH	BTEX/F3	F2 - F4	CCME-PHC	Dissolved Metals	Filtered?	Preserved?	Dissolved Mercury	Filtered?	Preserved?	Total Metals	Field Preserved?	Total Mercury	Field Preserved?	Chloride	Fluoride	Sulphate	TSS	TDS	BOD	COD	pH	Conductivity	Alkalinity	Nitrite	Nitrate	Ammonia	Bromate	Bromide	TOC	DBP <sub>5</sub> (THM <sub>5</sub> )	# OF CONTAINERS SUBMITTED	HOLD - DO NOT ANALYZE		
1 W.Leech		2018-12-07	13:00	water														X	X																							
2 Weeks out		2018-12-07	12:20	water														X	X																							
3 Tunnel		2018-12-07	11:15	water														X	X																							
4 Leech head		2018-12-07	10:40	water														X	X																							
5 Cragg Creek		2018-12-07	9:15	water														X	X																							
6 Chris Creek		2018-12-07	13:30	water														X	X																							
7																																										
8																																										
9																																										
10																																										
RELINQUISHED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	MAXXAM JOB #																																		
		2018/12/14	11:10			18/12/14	11:23																																			



B8A9288\_COC