

Your C.O.C. #: 006438

Attention: Donna Monteith

Cowichan Bay Waterworks
1760 Pavenham Rd
Cowichan Bay, BC
Canada VOR 1N1

Report Date: 2018/02/07
Report #: R2510982
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B807229

Received: 2018/01/30, 13:25

Sample Matrix: DRINKING WATER
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	2	2018/02/02	2018/02/03	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	2	N/A	2018/02/01	BBY6SOP-00011	SM 22 4500-Cl- E m
True Colour (Single Wavelength) (1)	2	N/A	2018/02/01	VIC SOP-00010	SM 22 2120 C m
Conductance - water	2	2018/02/02	2018/02/03	BBY6SOP-00026	SM 22 2510 B m
Fluoride	2	N/A	2018/02/01	BBY6SOP-00048	SM 22 4500-F C m
Iron Bacteria (1)	2	N/A	2018/01/30	VIC SOP-00114	SM 22 9240 m
Sulphide (as H ₂ S) Calculation - total	2	N/A	2018/02/05	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO ₃) (2)	2	N/A	2018/02/02	BBY WI-00033	Auto Calc
Mercury (Total) by CVAF	2	2018/02/01	2018/02/01	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Heterotropic Plate Count Water Mem. Filt (1)	2	N/A	2018/01/30	BBY4 SOP-00003	Based on SM-9215
Na, K, Ca, Mg, S by CRC ICPMS (total)	2	N/A	2018/02/02	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	2	N/A	2018/02/02	BBY7SOP-00003,	EPA 6020b R2 m
Nitrogen (Total)	2	2018/02/02	2018/02/02	BBY6SOP-00016	SM 22 4500-N C m
Ammonia-N (Preserved)	2	N/A	2018/02/02	BBY6SOP-00009	EPA 350.1 m
Nitrate + Nitrite (N)	2	N/A	2018/02/01	BBY6SOP-00010	SM 22 4500-NO ₃ - I m
Nitrite (N) by CFA	2	N/A	2018/02/01	BBY6SOP-00010	SM 22 4500-NO ₃ - I m
Nitrogen - Nitrate (as N)	2	N/A	2018/02/02	BBY WI-00033	Auto Calc
Nitrogen (Organic) (Cal. TKN, NH ₄ ,N/N)	2	N/A	2018/02/05	BBY WI-00033	Auto Calc
pH Water (3)	2	2018/02/02	2018/02/03	BBY6SOP-00026	SM 22 4500-H+ B m
Sat. pH and Langelier Index (@ 4.4C)	2	N/A	2018/02/05	BBY WI-00033	Auto Calc
Sat. pH and Langelier Index (@ 60C)	2	N/A	2018/02/05	BBY WI-00033	Auto Calc
Sulphate by Automated Colourimetry	2	N/A	2018/02/01	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate Reducing Bacteria (1)	2	N/A	2018/01/30	VIC SOP-00114	SM 22 9240 m
Sulphide - total	2	N/A	2018/02/02	BBY6SOP-00006	SM 22 4500-S2- D m
Total Dissolved Solids (Filt. Residue) (1)	2	N/A	2018/02/06	VIC SOP-00008	Based on SM 2540C
Total Coliform & E.Coli by MF-Chromocult (1)	2	N/A	2018/01/31	VIC SOP 00112	Based on SM-9222
Carbon (Total Organic) (4)	2	N/A	2018/02/01	BBY6SOP-00003	SM 22 5310 C m
Turbidity (1)	2	N/A	2018/02/01	VIC SOP-00011	SM 22 2130B m
UV absorbance @254nm-Unfiltered	2	N/A	2018/02/02	BBY6SOP-00055	SM 22 5910 B
UV transmittance @254nm-Unfiltered	2	N/A	2018/02/05	BBY WI-00033	Auto Calc

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CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B807229

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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.

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.

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.

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) This test was performed by Maxxam Victoria

(2) "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).

(3) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

(4) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Shanaz Akbar
Project Manager
07 Feb 2018 16:51:35

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

BC Env Customer Service, BC Environmental Customer Service

Email: Enviro.CS.BC@maxxam.ca

Phone# (604) 734 7276

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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.

Maxxam Job #: B807229
Report Date: 2018/02/07

Cowichan Bay Waterworks

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Maxxam ID					SW7156	SW7157		
Sampling Date					2018/01/30 11:35	2018/01/30 10:40		
COC Number					006438	006438		
	UNITS	MAC	AO	OG	2-WS-10-TELEGRAPH	WELL 13088	RDL	QC Batch
Misc. Inorganics								
UV absorbance (254nm)	AU/cm	-	-	-	<0.010	<0.010	0.010	8899381
ANIONS								
Nitrite (N)	mg/L	1	-	-	<0.0050	<0.0050	0.0050	8901061
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	-	-	-	80.7	66.9	0.50	8897559
Nitrate (N)	mg/L	10	-	-	0.256	0.125	0.020	8897561
Total Organic Nitrogen (N)	mg/L	-	-	-	<0.020	<0.020	0.020	8898351
Transmittance at 254nm	%T/cm	-	-	-	>97.7	>97.7	N/A	8897438
Misc. Inorganics								
Fluoride (F)	mg/L	1.5	-	-	0.056	0.058	0.020	8900624
Alkalinity (Total as CaCO3)	mg/L	-	-	-	74.6	69.8	1.0	8901650
Total Organic Carbon (C)	mg/L	-	-	-	<0.50	<0.50	0.50	8900119
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	<1.0	1.0	8901650
Bicarbonate (HCO3)	mg/L	-	-	-	91.1	85.2	1.0	8901650
Carbonate (CO3)	mg/L	-	-	-	<1.0	<1.0	1.0	8901650
Hydroxide (OH)	mg/L	-	-	-	<1.0	<1.0	1.0	8901650
Anions								
Dissolved Sulphate (SO4)	mg/L	-	500	-	5.7	5.8	1.0	8900940
Dissolved Chloride (Cl)	mg/L	-	250	-	8.1	6.2	1.0	8900938
MISCELLANEOUS								
True Colour	Col. Unit	-	15	-	<5	<5	5	8900876
Nutrients								
Total Ammonia (N)	mg/L	-	-	-	0.056	<0.020	0.020	8901670
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.256	0.125	0.020	8901058
Total Nitrogen (N)	mg/L	-	-	-	0.292	0.143	0.020	8901250
Physical Properties								
Conductivity	uS/cm	-	-	-	181	164	2.0	8901654
pH	pH	-	7.0:10.5	-	8.14	8.11		8901653
Physical Properties								
Total Dissolved Solids	mg/L	-	500	-	103	98	10	8900193
Turbidity	NTU	see remark	see remark	see remark	<0.1	0.1	0.1	8900892
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
N/A = Not Applicable								

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Cowichan Bay Waterworks

MERCURY BY COLD VAPOR (DRINKING WATER)

Maxxam ID			SW7156	SW7157		
Sampling Date			2018/01/30 11:35	2018/01/30 10:40		
COC Number			006438	006438		
	UNITS	MAC	2-WS-10-TELEGRAPH	WELL 13088	RDL	QC Batch
Elements						
Total Mercury (Hg)	ug/L	1	<0.010	<0.010	0.010	8900329
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					
RDL = Reportable Detection Limit						

Maxxam Job #: B807229
Report Date: 2018/02/07

Cowichan Bay Waterworks

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID					SW7156	SW7157		
Sampling Date					2018/01/30 11:35	2018/01/30 10:40		
COC Number					006438	006438		
	UNITS	MAC	AO	OG	2-WS-10-TELEGRAPH	WELL 13088	RDL	QC Batch
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	-	-	100	<3.0	<3.0	3.0	8898774
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	0.50	8898774
Total Arsenic (As)	ug/L	10	-	-	1.61	1.77	0.10	8898774
Total Barium (Ba)	ug/L	1000	-	-	3.2	3.2	1.0	8898774
Total Beryllium (Be)	ug/L	-	-	-	<0.10	<0.10	0.10	8898774
Total Bismuth (Bi)	ug/L	-	-	-	<1.0	<1.0	1.0	8898774
Total Boron (B)	ug/L	5000	-	-	<50	<50	50	8898774
Total Cadmium (Cd)	ug/L	5	-	-	<0.010	<0.010	0.010	8898774
Total Chromium (Cr)	ug/L	50	-	-	2.2	2.3	1.0	8898774
Total Cobalt (Co)	ug/L	-	-	-	<0.20	<0.20	0.20	8898774
Total Copper (Cu)	ug/L	-	1000	-	25.3	2.44	0.20	8898774
Total Iron (Fe)	ug/L	-	300	-	<5.0	<5.0	5.0	8898774
Total Lead (Pb)	ug/L	10	-	-	2.12	1.54	0.20	8898774
Total Manganese (Mn)	ug/L	-	50	-	<1.0	5.6	1.0	8898774
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	<1.0	1.0	8898774
Total Nickel (Ni)	ug/L	-	-	-	<1.0	<1.0	1.0	8898774
Total Selenium (Se)	ug/L	50	-	-	0.20	0.39	0.10	8898774
Total Silicon (Si)	ug/L	-	-	-	10300	12200	100	8898774
Total Silver (Ag)	ug/L	-	-	-	<0.020	<0.020	0.020	8898774
Total Strontium (Sr)	ug/L	-	-	-	54.5	51.2	1.0	8898774
Total Thallium (Tl)	ug/L	-	-	-	<0.010	<0.010	0.010	8898774
Total Tin (Sn)	ug/L	-	-	-	<5.0	<5.0	5.0	8898774
Total Titanium (Ti)	ug/L	-	-	-	<5.0	<5.0	5.0	8898774
Total Uranium (U)	ug/L	20	-	-	0.16	0.10	0.10	8898774
Total Vanadium (V)	ug/L	-	-	-	6.7	7.2	5.0	8898774
Total Zinc (Zn)	ug/L	-	5000	-	<5.0	<5.0	5.0	8898774
Total Zirconium (Zr)	ug/L	-	-	-	<0.10	<0.10	0.10	8898774
Total Calcium (Ca)	mg/L	-	-	-	18.7	14.9	0.050	8897560
Total Magnesium (Mg)	mg/L	-	-	-	8.29	7.21	0.050	8897560
Total Potassium (K)	mg/L	-	-	-	0.699	0.674	0.050	8897560
Total Sodium (Na)	mg/L	-	200	-	5.97	5.96	0.050	8897560
Total Sulphur (S)	mg/L	-	-	-	<3.0	<3.0	3.0	8897560
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								

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Cowichan Bay Waterworks

MICROBIOLOGY (DRINKING WATER)

Maxxam ID			SW7156	SW7157		
Sampling Date			2018/01/30 11:35	2018/01/30 10:40		
COC Number			006438	006438		
	UNITS	MAC	2-WS-10-TELEGRAPH	WELL 13088	RDL	QC Batch
Microbiological Param.						
Heterotrophic Plate Count	CFU/mL	-	<1	<1	1	8901149
Iron Bacteria	CFU/mL	-	<25	<25	25	8904810
Sulphate reducing bacteria	CFU/mL	-	<75	<75	75	8904807
Total Coliforms	CFU/100mL	0	1.0	0	N/A	8900513
E. coli	CFU/100mL	0	0	0	N/A	8900513
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					
RDL = Reportable Detection Limit						
N/A = Not Applicable						

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Cowichan Bay Waterworks

CALCULATED PARAMETERS (DRINKING WATER)

Maxxam ID		SW7156	SW7157	
Sampling Date		2018/01/30 11:35	2018/01/30 10:40	
COC Number		006438	006438	
	UNITS	2-WS-10-TELEGRAPH	WELL 13088	QC Batch
Calculated Parameters				
Langelier Index (@ 4.4C)	N/A	-0.616	-0.771	8898352
Langelier Index (@ 60C)	N/A	0.425	0.270	8898353
Saturation pH (@ 4.4C)	N/A	8.76	8.88	8898352
Saturation pH (@ 60C)	N/A	7.72	7.84	8898353

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Cowichan Bay Waterworks

MISCELLANEOUS (DRINKING WATER)

Maxxam ID			SW7156	SW7157		
Sampling Date			2018/01/30 11:35	2018/01/30 10:40		
COC Number			006438	006438		
	UNITS	AO	2-WS-10-TELEGRAPH	WELL 13088	RDL	QC Batch
Calculated Parameters						
Total Sulphide (as H ₂ S)	mg/L	0.05	0.012	0.011	0.0050	8898080
MISCELLANEOUS						
Total Sulphide	mg/L	0.05	0.0117	0.0103	0.0050	8900586
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					
RDL = Reportable Detection Limit						

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Cowichan Bay Waterworks

GENERAL COMMENTS

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

Package 1

8.3°C

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.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

Cowichan Bay Waterworks

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8898774	Total Aluminum (Al)	2018/02/02	102	80 - 120	110	80 - 120	<3.0	ug/L		
8898774	Total Antimony (Sb)	2018/02/02	95	80 - 120	102	80 - 120	<0.50	ug/L		
8898774	Total Arsenic (As)	2018/02/02	96	80 - 120	97	80 - 120	<0.10	ug/L		
8898774	Total Barium (Ba)	2018/02/02	95	80 - 120	102	80 - 120	<1.0	ug/L		
8898774	Total Beryllium (Be)	2018/02/02	93	80 - 120	101	80 - 120	<0.10	ug/L		
8898774	Total Bismuth (Bi)	2018/02/02	94	80 - 120	103	80 - 120	<1.0	ug/L		
8898774	Total Boron (B)	2018/02/02	88	80 - 120	97	80 - 120	<50	ug/L		
8898774	Total Cadmium (Cd)	2018/02/02	94	80 - 120	101	80 - 120	<0.010	ug/L		
8898774	Total Chromium (Cr)	2018/02/02	94	80 - 120	97	80 - 120	<1.0	ug/L		
8898774	Total Cobalt (Co)	2018/02/02	91	80 - 120	94	80 - 120	<0.20	ug/L		
8898774	Total Copper (Cu)	2018/02/02	NC	80 - 120	95	80 - 120	<0.20	ug/L		
8898774	Total Iron (Fe)	2018/02/02	96	80 - 120	100	80 - 120	<5.0	ug/L		
8898774	Total Lead (Pb)	2018/02/02	93	80 - 120	102	80 - 120	<0.20	ug/L	1.5	20
8898774	Total Manganese (Mn)	2018/02/02	93	80 - 120	97	80 - 120	<1.0	ug/L		
8898774	Total Molybdenum (Mo)	2018/02/02	96	80 - 120	103	80 - 120	<1.0	ug/L		
8898774	Total Nickel (Ni)	2018/02/02	95	80 - 120	96	80 - 120	<1.0	ug/L		
8898774	Total Selenium (Se)	2018/02/02	92	80 - 120	105	80 - 120	<0.10	ug/L		
8898774	Total Silicon (Si)	2018/02/02	97	80 - 120	115	80 - 120	<100	ug/L		
8898774	Total Silver (Ag)	2018/02/02	94	80 - 120	101	80 - 120	<0.020	ug/L		
8898774	Total Strontium (Sr)	2018/02/02	91	80 - 120	96	80 - 120	<1.0	ug/L		
8898774	Total Thallium (Tl)	2018/02/02	96	80 - 120	102	80 - 120	<0.010	ug/L		
8898774	Total Tin (Sn)	2018/02/02	NC	80 - 120	98	80 - 120	<5.0	ug/L		
8898774	Total Titanium (Ti)	2018/02/02	98	80 - 120	98	80 - 120	<5.0	ug/L		
8898774	Total Uranium (U)	2018/02/02	98	80 - 120	103	80 - 120	<0.10	ug/L		
8898774	Total Vanadium (V)	2018/02/02	95	80 - 120	97	80 - 120	<5.0	ug/L		
8898774	Total Zinc (Zn)	2018/02/02	92	80 - 120	98	80 - 120	<5.0	ug/L		
8898774	Total Zirconium (Zr)	2018/02/02	92	80 - 120	95	80 - 120	<0.10	ug/L		
8899381	UV absorbance (254nm)	2018/02/02					<0.010	AU/cm	0.52	20
8900119	Total Organic Carbon (C)	2018/02/01	106	80 - 120	111	80 - 120	<0.50	mg/L	NC	20
8900193	Total Dissolved Solids	2018/02/06			103	80 - 120	<10	mg/L	9.6	20
8900329	Total Mercury (Hg)	2018/02/01	81	80 - 120	92	80 - 120	<0.010	ug/L	NC	20
8900513	E. coli	2018/01/31							NC	N/A

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Cowichan Bay Waterworks

QUALITY ASSURANCE REPORT(CONT'D)

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD			
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits		
8900513	Total Coliforms	2018/01/31										
8900586	Total Sulphide	2018/02/02	109	80 - 120	107	80 - 120	<0.0050	mg/L	NC	NC	N/A	
8900624	Fluoride (F)	2018/02/01	106	80 - 120	108	80 - 120	<0.020	mg/L	0	NC	20	
8900876	True Colour	2018/02/01			108	80 - 120	<5	Col. Unit	NC	NC	10	
8900892	Turbidity	2018/02/01			96	80 - 120	<0.1	NTU	NC	NC	20	
8900938	Dissolved Chloride (Cl)	2018/02/01	118	80 - 120	102	80 - 120	<1.0	mg/L	0.58		20	
8900940	Dissolved Sulphate (SO4)	2018/02/01			102	80 - 120	<1.0	mg/L				
8901058	Nitrate plus Nitrite (N)	2018/02/01	107	80 - 120	103	80 - 120	<0.020	mg/L	1.9		25	
8901061	Nitrite (N)	2018/02/01	102	80 - 120	95	80 - 120	<0.0050	mg/L	NC	NC	20	
8901149	Heterotrophic Plate Count	2018/01/30							NC	NC	N/A	
8901250	Total Nitrogen (N)	2018/02/02	NC	80 - 120	92	80 - 120	<0.020	mg/L	0.61		20	
8901650	Alkalinity (PP as CaCO3)	2018/02/03					<1.0	mg/L	9.1		20	
8901650	Alkalinity (Total as CaCO3)	2018/02/03	NC	80 - 120	97	80 - 120	<1.0	mg/L	1.4		20	
8901650	Bicarbonate (HCO3)	2018/02/03					<1.0	mg/L	1.8		20	
8901650	Carbonate (CO3)	2018/02/03					<1.0	mg/L	9.1		20	
8901650	Hydroxide (OH)	2018/02/03					<1.0	mg/L	NC	NC	20	
8901653	pH	2018/02/03			101	97 - 103			0.24		20	
8901654	Conductivity	2018/02/03			101	80 - 120	<2.0	uS/cm	0.30		20	
8901670	Total Ammonia (N)	2018/02/02	91	80 - 120	113	80 - 120	<0.020	mg/L	0		20	
8904807	Sulphate reducing bacteria	2018/01/30							NC		N/A	

N/A = Not Applicable

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 #: B807229
Report Date: 2018/02/07

Cowichan Bay Waterworks

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

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.

**DRINKING WATER SUBMISSION
CHAIN OF CUSTODY RECORD**

Page: 1 of 2

Burnaby: 4806 Canada Way, Burnaby, BC V5G 1K6 Ph: (604) 734-7275 Toll Free: (800) 665-8686



Maxxam Job #: 006438

COC #: 006438

Invoice To: Requite Report? Yes No

Company Name: Coveration Bay Water

Contact Name: Dennis Handberg

Address: 1780 Townsman

Phone / Fax#: 748-1697 PC: VOR-1M1

E-mail: abwater@telus.net

After Hours Contact #: 709-1447 Dave

Report To: SALE

Company Name: _____

Contact Name: _____

Address: _____

Phone / Fax#: _____ PC: _____

E-mail: _____

According to the B.C. Drinking Water Protection Act, Maxxam is required by law to immediately give notice to the water supplier, drinking water officer, and medical health officer in the event your sample is positive in E. Coli and you answered "yes" to any of the first three questions below. For that reason, Maxxam CANNOT analyze your sample unless you have provided all information on this form.

SERVICE REQUESTED:

Regular Turn Around Time (TAT) (5 days for most tests)

RUSH (Please contact the lab)

1 Day 2 Day 3 Day

Surcharges will be applied

Date Required: _____

SPECIAL INSTRUCTIONS:

Return Cooler Ship Sample Bottles (please specify) _____

PLEASE CIRCLE	WORKS REQUESTED PLEASE SELECT BELOW	Are you currently on a bottled water delivery? Y/N	Do you currently supply multiple households? Y/N	Do individuals drinking this water? Y/N	Samples from a Drinking Water Source? Y/N	Drinking Water Package (Including Total Hardness and Micro)	Total Coliform and E. coli	Number of Containers	Report Drinking Water Criteria DWG-17
(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)

- MHO = Medical Health Officer; DWO = Drinking Water Officer
- FRASER HEALTH AUTHORITY
MHO: 604.527.4806; DWO: 604.870.7900 or 1.866.749.7900
- VANCOUVER ISLAND HEALTH AUTHORITY
MHO: 1.800.204.8166; DWO: 250.755.8215
- INTERIOR HEALTH AUTHORITY
MHO: 1.866.748.1691; DWO: 250.851.7338
- NORTHERN HEALTH AUTHORITY
MHO: 250.565.7424 or 250.565.2000; DWO: 250.565.2150
- VANCOUVER COASTAL HEALTH AUTHORITY
- also check off below if applicable
- MHO: 604.527.4893; DWO: 604.983.6751
Coast Garibaldi, MHO: 604.885.8708 and DWO (below):
Powell River: 604.485.3335 Sechelt Area: 604.885.8711
- Sea to Sky (Howe sound): 604.7
North Shore: MHO 604.983.67
Bowen Island, Lions Bay, Bella
Mount Seymour, Indian Arm, B
Grouse Mountain and Muncipe



B807229_COC

Sample Identification	Water Type	Date/Time Sampled (24hr)	Received by	Date (Y/m/d)	Time (24hr)	Sensitivity	Temperature on Receipt (°C)	Custody Seal	Yes	No
1 2-W5-10 Telegraph	DW	Jan 30 11:35	SAH	2010/01/30	13:23	(A)	9	(B)	(C)	(D)
2 Bell 13088		Jan 30 10:40	SAH	2010/01/30	13:25	(A)	9	(B)	(C)	(D)

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Maxxam's standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.maxxam.ca/terms.

Print name and sign: _____

Time (24hr): _____

Temperature on Receipt (°C): _____

Custody Seal: _____

Yes: _____ No: _____

Maxxam Analytical Services Through Scientific

BBY FCD-000770

For further information and resources on result interpretation, please visit our Drinking Water Resource Centre:
<http://maxxam.ca/maxxams-resource-centre-for-drinking-water-testing>