City of Revelstoke 2022 Water Sampling and Testing Results

Bacteriological Testing Results

January and July

CERTIFICATE OF ANALYSIS

REPORTED TO	Revelstoke, City of 1200 East Victoria Road, Box 170 Revelstoke, BC V0E 2S0		
ATTENTION	Doug Pendergast	**WORK ORDER**	22A0383
PO NUMBER		**RECEIVED / TEMP**	2022-01-06 08:00 / 3.6°C
PROJECT	Drinking Water	**REPORTED**	2022-01-10 10:06
PROJECT INFO		**COC NUMBER**	B05339

Introduction:

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If you have any questions or concerns, please contact me at teamcaro@caro.ca

Authorized By:

Team CARO
Client Service Representative

TEST RESULTS

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22A0383
PROJECT	Drinking Water	**REPORTED**	2022-01-10 10:06

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
RMR Booster (22A0383-01) | Matrix: Water | Sampled: 2022-01-05 12:16						
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-06	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-06	
Jacobson Ford (22A0383-02) | Matrix: Water | Sampled: 2022-01-05 13:00						
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-06	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-06	

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22A0383
PROJECT	Drinking Water	**REPORTED**	2022-01-10 10:06

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

General Comments:

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CERTIFICATE OF ANALYSIS

REPORTED TO	Revelstoke, City of 1200 East Victoria Road, Box 170 Revelstoke, BC V0E 2S0		
ATTENTION	Doug Pendergast	**WORK ORDER**	22A0936
PO NUMBER		**RECEIVED / TEMP**	2022-01-11 15:30 / 5.5°C
PROJECT	Drinking Water	**REPORTED**	2022-01-13 13:49
PROJECT INFO		**COC NUMBER**	B50339

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Authorized By:

Team CARO
Client Service Representative

TEST RESULTS

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22A0936
PROJECT	Drinking Water	**REPORTED**	2022-01-13 13:49

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
City Works Yard (22A0936-01) | Matrix: Water | Sampled: 2022-01-10 12:20						
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-11	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-11	
Chevron (22A0936-02) | Matrix: Water | Sampled: 2022-01-10 12:50						
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-11	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-11	

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22A0936
PROJECT	Drinking Water	**REPORTED**	2022-01-13 13:49

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

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CERTIFICATE OF ANALYSIS

REPORTED TO	Revelstoke, City of 1200 East Victoria Road, Box 170 Revelstoke, BC V0E 2S0		
ATTENTION	Doug Pendergast	**WORK ORDER**	22A1850
PO NUMBER		**RECEIVED / TEMP**	2022-01-18 14:50 / 7.6°C
PROJECT	Drinking Water	**REPORTED**	2022-01-20 11:06
PROJECT INFO		**COC NUMBER**	B50339

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Team CARO
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TEST RESULTS

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22A1850
PROJECT	Drinking Water	**REPORTED**	2022-01-20 11:06

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Queen Victoria Hospital (22A1850-01) | Matrix: Water | Sampled: 2022-01-17 12:10						
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-18	
Lagoon (22A1850-02) | Matrix: Water | Sampled: 2022-01-17 11:40						
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-18	

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22A1850
PROJECT	Drinking Water	**REPORTED**	2022-01-20 11:06

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

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CERTIFICATE OF ANALYSIS

REPORTED TO	Revelstoke, City of 1200 East Victoria Road, Box 170 Revelstoke, BC V0E 2S0		
ATTENTION	Doug Pendergast	**WORK ORDER**	22A2828
PO NUMBER		**RECEIVED / TEMP**	2022-01-25 08:30 / 8.4°C
PROJECT	Drinking Water	**REPORTED**	2022-01-27 10:33
PROJECT INFO		**COC NUMBER**	B76989

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CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22A2828
PROJECT	Drinking Water	**REPORTED**	2022-01-27 10:33

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
NAPA (22A2828-01) | Matrix: Water | Sampled: 2022-01-24 12:45						
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-25	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-25	
Rec Center (22A2828-02) | Matrix: Water | Sampled: 2022-01-24 13:15						
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-25	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-25	

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22A2828
PROJECT	Drinking Water	**REPORTED**	2022-01-27 10:33

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna

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CERTIFICATE OF ANALYSIS

REPORTED TO	Revelstoke, City of 1200 East Victoria Road, Box 170 Revelstoke, BC V0E 2S0		
ATTENTION	Doug Pendergast	**WORK ORDER**	22G0175
PO NUMBER		**RECEIVED / TEMP**	2022-07-05 08:30 / 13.3°C
PROJECT	Drinking Water	**REPORTED**	2022-07-11 11:01
PROJECT INFO		**COC NUMBER**	B43233

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Authorized By:

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Client Service Representative

CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22G0175
PROJECT	Drinking Water	**REPORTED**	2022-07-11 11:01

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
RMR Booster (22G0175-01) | Matrix: Water | Sampled: 2022-07-04 10:15						
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-07-05	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-07-05	
Jacobson Ford (22G0175-02) | Matrix: Water | Sampled: 2022-07-04 10:40						
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-07-05	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-07-05	

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22G0175
PROJECT	Drinking Water	**REPORTED**	2022-07-11 11:01

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna

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LOGIN NOTICE CONFIRMATION (Work Order 22G0175)

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https://www.caro.ca/quick-guide-to-your-login-notice-how-to-review-your-sample-submission/

CLIENT	Revelstoke, City of		
PO NUMBER		**QUOTATION ID**	Revelstoke Master Bid
PROJECT	Drinking Water	**SUBMITTED BY**	
PROJECT INFO	[none]	**COC NO.**	B43233

Receipt Details:

SAMPLES LOGGED IN	2		
RECEIVED	2022-07-05 08:30	**LOGGED IN**	2022-07-05 09:11
LOCATION	Kelowna Lab	**ACCOUNT MGR**	Team CARO

Sample Condition Summary: Quantity of Transport Vessels Received: 1

Receipt Temperature = 13.3°C

Broken Container(s)	No	Sampling Date(s) Missing	No	Incorrect Cont./Pres.	No	Custody Seals Intact	
Cooling Initiated	Yes	Sample(s) Frozen	No	Missing/Extra Samples	No		

Note: *Sample transport temperatures of less than 8°C for microbiological parameters and less than or equal to 10°C for environmental parameters is recommended. Samples that exceed these values will still be processed. However, please note that the analytical results may be affected, especially for samples collected prior to the day of receipt.*

REPORT TO	Doug Pendergast Revelstoke, City of 1200 East Victoria Road, Box 170 Revelstoke, BC V0E 2S0 Tel: (250) 837-2001	**INCLUDE QC** **INCLUDE COC** **EXTRAS**	No No Guidelines
INVOICE TO	Doug Pendergast Revelstoke, City of 1200 East Victoria Road, Box 170 Revelstoke, BC V0E 2S0 Tel: (250) 837-2001	**FREQUENCY** **GST EXEMPT** **PAYMENT TERMS** **MIN AMOUNT**	Monthly No Upon Receipt N/A

Delivery Plan:

REPORT DUE 2022-07-14 17:00 (5-7 day TAT)

Contact Name	Email / Fax / Cellular	Login Notice	Report	Invoice	EDD	EDD Format	CC to	Fax	Text	Mail
Doug Pendergast	dpendergast@cityofrevelstoke.com	✓								
Doug Pendergast	dpendergast@cityofrevelstoke.com		✓		✓	SIMPLE EXCEL	diana.tesic-nagalingam@interiorhealth.ca			
Doug Pendergast	dpendergast@cityofrevelstoke.com			✓			accounts.payable@revelstoke.ca			

Analysis Schedule:

Analysis / Version	Due	Expires [1]	Status	Comments
RMR Booster (22G0175-01) | Matrix: Water | Sampled: 2022-07-04 10:15 |				
Container(s) Submitted: *A = C07_300 mL Plastic (Micro-S)*				
Coliforms, Total & E. coli (MF-CCA) Pkg	2022-07-14	2022-07-05	Available	

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Analysis Schedule, Continued:

Analysis / Version	Due	Expires [1]	Status	Comments
Jacobson Ford (22G0175-02) | Matrix: Water | Sampled: 2022-07-04 10:40 |				
Container(s) Submitted: *A = C07_300 mL Plastic (Micro-S)*				
Coliforms, Total & E. coli (MF-CCA) Pkg	2022-07-14	2022-07-05	Available	

1 *Red font indicates that the analysis has already or is about to expire. In order to guarantee that your samples will be analyzed within the recommended holding time, they must be received at least one day prior to the expiry date (3 hours for microbiological testing). Note that all pH in water / Chlorine / Temperature / Dissolved Oxygen results will be automatically be qualified as they should be analyzed in the field for greatest accuracy.*

Packages and their respective Analyses included in this Work Order:

Coliforms, Total & E. coli (MF-CCA) Pkg

Coliforms, Total (MF-CCA) E. coli (MF-CCA)

Each Analysis includes the following Analytes and their respective Reporting Limits [RLs]:

Coliforms, Total (MF-CCA) in Water	*Reference Method: SM 9222* (2017)*	*Units: CFU/100 mL*
Coliforms, Total [1]		
E. coli (MF-CCA) in Water	*Reference Method: SM 9222* (2017)*	*Units: CFU/100 mL*
E. coli [1]		

Note: RLs on Final Report may be higher than expected due to: 1) limited sample volume, 2) high moisture, 3) analytical interferences

Please verify that all of the information included in this Login Notice is correct. If there are any errors, omissions, or concerns, please contact us at 1-888-311-8846.

You can expect to receive the analytical report via email on or after the due date shown above.

Thank you for using CARO!

CERTIFICATE OF ANALYSIS

REPORTED TO	Revelstoke, City of 1200 East Victoria Road, Box 170 Revelstoke, BC V0E 2S0		
ATTENTION	Doug Pendergast	**WORK ORDER**	22G0178
PO NUMBER		**RECEIVED / TEMP**	2022-07-05 08:30 / 13.3°C
PROJECT	Drinking Water	**REPORTED**	2022-07-11 11:01
PROJECT INFO		**COC NUMBER**	B43233

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks

You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry

It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve

Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

If you have any questions or concerns, please contact me at TeamCaro@caro.ca

Authorized By:

Team CARO
Client Service Representative

TEST RESULTS

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22G0178
PROJECT	Drinking Water	**REPORTED**	2022-07-11 11:01

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Boltons (22G0178-01) | Matrix: Water | Sampled: 2022-07-04						
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-07-05	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-07-05	

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22G0178
PROJECT	Drinking Water	**REPORTED**	2022-07-11 11:01

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

General Comments:

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing. The quality control (QC) data is available upon request

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager:TeamCaro@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.

City of Revelstoke 2022 Water Sampling and Testing Results

Full Spectrum Testing Results

CERTIFICATE OF ANALYSIS

REPORTED TO	Revelstoke, City of 1200 East Victoria Road, Box 170 Revelstoke, BC V0E 2S0		
ATTENTION	Doug Pendergast	**WORK ORDER**	22H2677
PO NUMBER		**RECEIVED / TEMP**	2022-08-18 07:50 / 17.9°C
PROJECT	General Potability	**REPORTED**	2022-08-24 16:17
PROJECT INFO		**COC NUMBER**	B43233

Introduction:

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By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here: https://www.caro.ca/terms-conditions

If you have any questions or concerns, please contact me at TeamCaro@caro.ca

Authorized By:

Team CARO
Client Service Representative

CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO Revelstoke, City of
PROJECT General Potability

WORK ORDER 22H2677
REPORTED 2022-08-24 16:17

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Greeley Creek (22H2677-01) | Matrix: Water | Sampled: 2022-08-17 09:15						
Anions						
Chloride	< 0.10	AO ≤ 250	0.10	mg/L	2022-08-19	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2022-08-19	
Nitrate (as N)	**0.025**	MAC = 10	0.010	mg/L	2022-08-19	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2022-08-19	
Sulfate	**12.1**	AO ≤ 500	1.0	mg/L	2022-08-19	
Calculated Parameters						
Hardness, Total (as CaCO3)	**41.0**	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	**56.6**	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	**44.5**	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Bicarbonate (as CaCO3)	**44.5**	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Conductivity (EC)	**94.8**	N/A	2.0	µS/cm	2022-08-19	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2022-08-18	
pH	**6.84**	7.0-10.5	0.10	pH units	2022-08-19	HT2
Turbidity	**0.23**	OG < 1	0.10	NTU	2022-08-19	
Microbiological Parameters						
Coliforms, Total	**≥ 110**	MAC = 0	1	CFU/100 mL	2022-08-18	
Background Colonies	**>200**	N/A	200	CFU/100 mL	2022-08-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-08-18	
Total Metals						
Aluminum, total	**0.0168**	OG < 0.1	0.0050	mg/L	2022-08-23	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2022-08-23	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2022-08-23	
Barium, total	**0.0096**	MAC = 2	0.0050	mg/L	2022-08-23	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2022-08-23	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2022-08-23	
Calcium, total	**13.6**	None Required	0.20	mg/L	2022-08-23	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-23	
Copper, total	< 0.00040	MAC = 2	0.00040	mg/L	2022-08-23	
Iron, total	**0.013**	AO ≤ 0.3	0.010	mg/L	2022-08-23	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2022-08-23	
Magnesium, total	**1.70**	None Required	0.010	mg/L	2022-08-23	
Manganese, total	**0.00118**	MAC = 0.12	0.00020	mg/L	2022-08-23	
Potassium, total	**1.08**	N/A	0.10	mg/L	2022-08-23	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-23	
Sodium, total	**0.87**	AO ≤ 200	0.10	mg/L	2022-08-23	
Strontium, total	**0.0432**	MAC = 7	0.0010	mg/L	2022-08-23	

TEST RESULTS

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22H2677
PROJECT	General Potability	**REPORTED**	2022-08-24 16:17

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Greeley Creek (22H2677-01) | Matrix: Water | Sampled: 2022-08-17 09:15, Continued						
Total Metals, Continued						
Uranium, total	**0.000215**	MAC = 0.02	0.000020	mg/L	2022-08-23	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2022-08-23	
Golf Course Well (22H2677-02) | Matrix: Water | Sampled: 2022-08-17 09:35						
Anions						
Chloride	**6.33**	AO ≤ 250	0.10	mg/L	2022-08-19	
Fluoride	**0.68**	MAC = 1.5	0.10	mg/L	2022-08-19	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2022-08-19	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2022-08-19	
Sulfate	**29.7**	AO ≤ 500	1.0	mg/L	2022-08-19	
Calculated Parameters						
Hardness, Total (as CaCO3)	**107**	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	**175**	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	**136**	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Bicarbonate (as CaCO3)	**136**	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Conductivity (EC)	**286**	N/A	2.0	µS/cm	2022-08-19	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2022-08-18	
pH	**7.81**	7.0-10.5	0.10	pH units	2022-08-19	HT2
Turbidity	**0.40**	OG < 1	0.10	NTU	2022-08-19	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-08-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-08-18	
Total Metals						
Aluminum, total	**0.0061**	OG < 0.1	0.0050	mg/L	2022-08-23	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2022-08-23	
Arsenic, total	**0.00180**	MAC = 0.01	0.00050	mg/L	2022-08-23	
Barium, total	**0.0881**	MAC = 2	0.0050	mg/L	2022-08-23	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2022-08-23	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2022-08-23	
Calcium, total	**35.4**	None Required	0.20	mg/L	2022-08-23	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-23	
Copper, total	**0.00068**	MAC = 2	0.00040	mg/L	2022-08-23	
Iron, total	**0.104**	AO ≤ 0.3	0.010	mg/L	2022-08-23	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2022-08-23	
Magnesium, total	**4.48**	None Required	0.010	mg/L	2022-08-23	

TEST RESULTS

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22H2677
PROJECT	General Potability	**REPORTED**	2022-08-24 16:17

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Golf Course Well (22H2677-02) | Matrix: Water | Sampled: 2022-08-17 09:35, Continued						
Total Metals, Continued						
Manganese, total	**0.0510**	MAC = 0.12	0.00020	mg/L	2022-08-23	
Potassium, total	**3.03**	N/A	0.10	mg/L	2022-08-23	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-23	
Sodium, total	**13.4**	AO ≤ 200	0.10	mg/L	2022-08-23	
Strontium, total	**0.224**	MAC = 7	0.0010	mg/L	2022-08-23	
Uranium, total	**0.000307**	MAC = 0.02	0.000020	mg/L	2022-08-23	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2022-08-23	
Big Eddy Well 1 (22H2677-03) | Matrix: Water | Sampled: 2022-08-17 10:06						
Anions						
Chloride	**22.9**	AO ≤ 250	0.10	mg/L	2022-08-19	
Fluoride	**0.12**	MAC = 1.5	0.10	mg/L	2022-08-19	
Nitrate (as N)	**0.154**	MAC = 10	0.010	mg/L	2022-08-19	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2022-08-19	
Sulfate	**10.6**	AO ≤ 500	1.0	mg/L	2022-08-19	
Calculated Parameters						
Hardness, Total (as CaCO3)	**76.5**	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	**156**	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	**119**	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Bicarbonate (as CaCO3)	**119**	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Conductivity (EC)	**261**	N/A	2.0	µS/cm	2022-08-19	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2022-08-18	
pH	**6.81**	7.0-10.5	0.10	pH units	2022-08-19	HT2
Turbidity	**0.30**	OG < 1	0.10	NTU	2022-08-19	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-08-18	
Background Colonies	**>200**	N/A	200	CFU/100 mL	2022-08-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-08-18	
Total Metals						
Aluminum, total	**0.0071**	OG < 0.1	0.0050	mg/L	2022-08-23	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2022-08-23	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2022-08-23	
Barium, total	**0.0109**	MAC = 2	0.0050	mg/L	2022-08-23	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2022-08-23	
Cadmium, total	**0.000013**	MAC = 0.005	0.000010	mg/L	2022-08-23	

CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO Revelstoke, City of
PROJECT General Potability

WORK ORDER 22H2677
REPORTED 2022-08-24 16:17

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Big Eddy Well 1 (22H2677-03) | Matrix: Water | Sampled: 2022-08-17 10:06, Continued						
Total Metals, Continued						
Calcium, total	**27.2**	None Required	0.20	mg/L	2022-08-23	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-23	
Copper, total	**0.193**	MAC = 2	0.00040	mg/L	2022-08-23	
Iron, total	**1.00**	AO ≤ 0.3	0.010	mg/L	2022-08-23	
Lead, total	**0.00127**	MAC = 0.005	0.00020	mg/L	2022-08-23	
Magnesium, total	**2.07**	None Required	0.010	mg/L	2022-08-23	
Manganese, total	**0.00094**	MAC = 0.12	0.00020	mg/L	2022-08-23	
Potassium, total	**1.67**	N/A	0.10	mg/L	2022-08-23	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-23	
Sodium, total	**18.5**	AO ≤ 200	0.10	mg/L	2022-08-23	
Strontium, total	**0.123**	MAC = 7	0.0010	mg/L	2022-08-23	
Uranium, total	**0.000240**	MAC = 0.02	0.000020	mg/L	2022-08-23	
Zinc, total	**0.116**	AO ≤ 5	0.0040	mg/L	2022-08-23	
Big Eddy Well 3 (22H2677-04) | Matrix: Water | Sampled: 2022-08-17 10:15						
Anions						
Chloride	**31.2**	AO ≤ 250	0.10	mg/L	2022-08-19	
Fluoride	**0.12**	MAC = 1.5	0.10	mg/L	2022-08-19	
Nitrate (as N)	**0.249**	MAC = 10	0.010	mg/L	2022-08-19	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2022-08-19	
Sulfate	**9.5**	AO ≤ 500	1.0	mg/L	2022-08-19	
Calculated Parameters						
Hardness, Total (as CaCO3)	**66.3**	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	**145**	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	**88.6**	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Bicarbonate (as CaCO3)	**88.6**	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Conductivity (EC)	**261**	N/A	2.0	µS/cm	2022-08-19	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2022-08-18	
pH	**6.88**	7.0-10.5	0.10	pH units	2022-08-19	HT2
Turbidity	**0.19**	OG < 1	0.10	NTU	2022-08-19	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-08-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-08-18	
Total Metals						
Aluminum, total	**0.0060**	OG < 0.1	0.0050	mg/L	2022-08-23	

CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22H2677
PROJECT	General Potability	**REPORTED**	2022-08-24 16:17

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Big Eddy Well 3 (22H2677-04) | Matrix: Water | Sampled: 2022-08-17 10:15, Continued						
Total Metals, Continued						
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2022-08-23	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2022-08-23	
Barium, total	**0.0104**	MAC = 2	0.0050	mg/L	2022-08-23	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2022-08-23	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2022-08-23	
Calcium, total	**23.4**	None Required	0.20	mg/L	2022-08-23	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-23	
Copper, total	**0.00267**	MAC = 2	0.00040	mg/L	2022-08-23	
Iron, total	**0.029**	AO ≤ 0.3	0.010	mg/L	2022-08-23	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2022-08-23	
Magnesium, total	**1.90**	None Required	0.010	mg/L	2022-08-23	
Manganese, total	**0.00029**	MAC = 0.12	0.00020	mg/L	2022-08-23	
Potassium, total	**1.61**	N/A	0.10	mg/L	2022-08-23	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-23	
Sodium, total	**22.4**	AO ≤ 200	0.10	mg/L	2022-08-23	
Strontium, total	**0.112**	MAC = 7	0.0010	mg/L	2022-08-23	
Uranium, total	**0.000162**	MAC = 0.02	0.000020	mg/L	2022-08-23	
Zinc, total	**0.0042**	AO ≤ 5	0.0040	mg/L	2022-08-23	

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22H2677
PROJECT	General Potability	**REPORTED**	2022-08-24 16:17

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2017)	Titration with H2SO4	✓	Kelowna
Anions in Water	SM 4110 B (2017)	Ion Chromatography	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Conductivity in Water	SM 2510 B (2017)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B* (2017)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
pH in Water	SM 4500-H+ B (2017)	Electrometry	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2017)	SM 1030 E (2011)		N/A
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Turbidity in Water	SM 2130 B (2017)	Nephelometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
>=	Greater than or equal to the specified Result
>2	Greater than the specified Result
AO	Aesthetic Objective
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, ph > 7 = basic
µS/cm	Microsiemens per centimetre
ASTM	ASTM International Test Methods
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Revelstoke, City of	**WORK ORDER**	22H2677
PROJECT	General Potability	**REPORTED**	2022-08-24 16:17

General Comments:

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing. The quality control (QC) data is available upon request

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