

City of Revelstoke 2023 Caro Water Sampling and Testing Results (July and January)



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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

PO NUMBER
PROJECT Drinking Water
PROJECT INFO

WORK ORDER 23G1143

RECEIVED / TEMP 2023-07-11 14:36 / 23.2°C
REPORTED 2023-07-13 14:26
COC NUMBER eCOC#00005185

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



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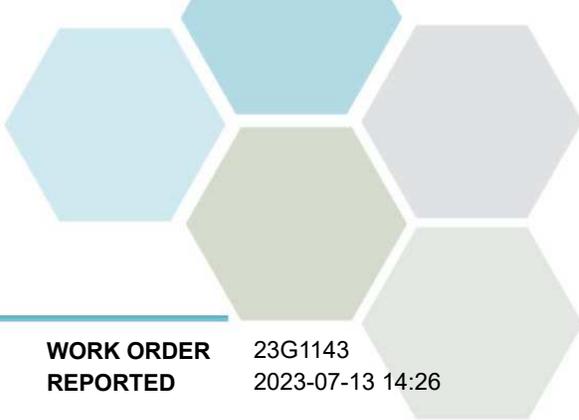
If you have any questions or concerns, please contact me at TeamCaro@caro.ca

Authorized By:

Team CARO
Client Service Representative

1-888-311-8846 | www.caro.ca

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TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 23G1143
2023-07-13 14:26

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Public Works Yard (23G1143-01) | Matrix: Drinking Water | Sampled: 2023-07-10 12:30

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-07-11	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-07-11	

Golf Course (23G1143-02) | Matrix: Drinking Water | Sampled: 2023-07-10 12:45

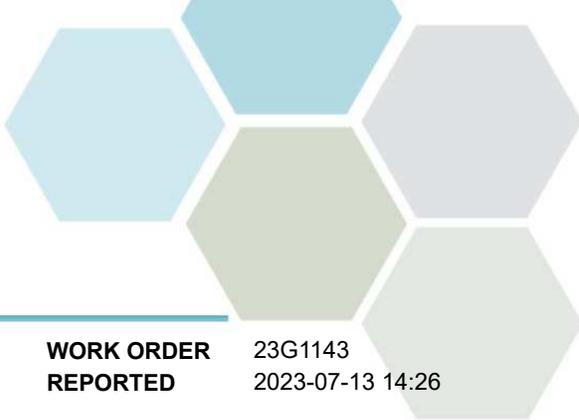
Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-07-11	
Background Colonies	>200	N/A	200	CFU/100 mL	2023-07-11	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-07-11	

Chevron (23G1143-03) | Matrix: Drinking Water | Sampled: 2023-07-10 13:00

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-07-11	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-07-11	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 23G1143
2023-07-13 14:26

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2015)	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
>2	Greater than the specified Result
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

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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

PO NUMBER
PROJECT Big Eddy Waterworks
PROJECT INFO

WORK ORDER 23G2128

RECEIVED / TEMP 2023-07-18 15:08 / 14.9°C
REPORTED 2023-07-24 11:51
COC NUMBER eCOC#00005361

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.

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TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Big Eddy Waterworks

WORK ORDER REPORTED 23G2128
2023-07-24 11:51

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
H & J (23G2128-01) Matrix: Drinking Water Sampled: 2023-07-17 13:00						
<i>Microbiological Parameters</i>						
Coliforms, Total	1	MAC = 0	1	CFU/100 mL	2023-07-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-07-18	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Big Eddy Waterworks

WORK ORDER REPORTED 23G2128
2023-07-24 11:51

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2015)	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

PO NUMBER
PROJECT Drinking Water
PROJECT INFO

WORK ORDER 23G2126

RECEIVED / TEMP 2023-07-18 14:54 / 14.9°C
REPORTED 2023-07-24 11:47
COC NUMBER eCOC#00005362

Introduction:

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Client Service Representative

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TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 23G2126
2023-07-24 11:47

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Queen Victoria Hospital (23G2126-01) | Matrix: Drinking Water | Sampled: 2023-07-17 12:45

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-07-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-07-18	

Lagoon Office (23G2126-02) | Matrix: Drinking Water | Sampled: 2023-07-17 13:30

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-07-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-07-18	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 23G2126
2023-07-24 11:47

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2015)	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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REPORTED TO Revelstoke, City of
1200 East Victoria Road, Box 170
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ATTENTION Doug Pendergast

PO NUMBER
PROJECT Drinking Water

PROJECT INFO

WORK ORDER 23G3025

RECEIVED / TEMP 2023-07-25 11:55 / 16.0°C
REPORTED 2023-07-28 10:51

COC NUMBER eCOC#00005573

Introduction:

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TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 23G3025
2023-07-28 10:51

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Napa (23G3025-01) | Matrix: Drinking Water | Sampled: 2023-07-24 12:00

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-07-25	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-07-25	

Golf Course (23G3025-02) | Matrix: Drinking Water | Sampled: 2023-07-24 11:45

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-07-25	
Background Colonies	>200	N/A	200	CFU/100 mL	2023-07-25	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-07-25	

Rec Center (23G3025-03) | Matrix: Drinking Water | Sampled: 2023-07-24 12:30

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-07-25	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-07-25	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 23G3025
2023-07-28 10:51

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2015)	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

PO NUMBER
PROJECT Drinking Water
PROJECT INFO

WORK ORDER 23A0129

RECEIVED / TEMP 2023-01-04 08:30 / 3.0°C
REPORTED 2023-01-06 18:06
COC NUMBER No Number

Introduction:

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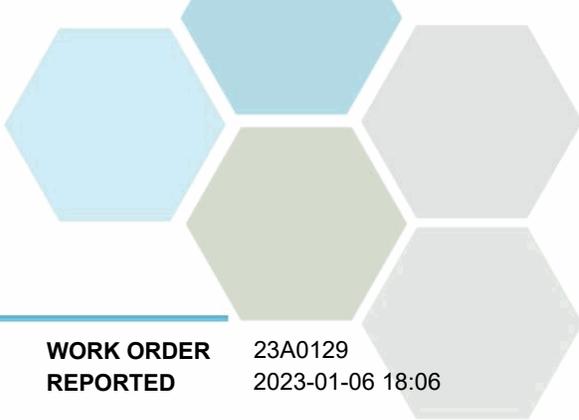
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TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 23A0129
2023-01-06 18:06

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Jacobson (23A0129-01) | Matrix: Water | Sampled: 2023-01-03 11:00

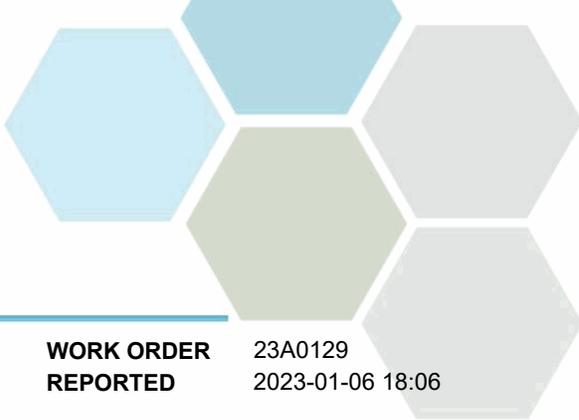
Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-01-04	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-01-04	

RMR Booster (23A0129-02) | Matrix: Water | Sampled: 2023-01-03 10:30

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-01-04	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-01-04	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 23A0129
2023-01-06 18:06

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

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CERTIFICATE OF ANALYSIS

REPORTED TO	Revelstoke, City of 1200 East Victoria Road, Box 170 Revelstoke, BC V0E 2S0	WORK ORDER	23A0691
ATTENTION	Doug Pendergast	RECEIVED / TEMP REPORTED	2023-01-10 08:30 / 6.1°C 2023-01-12 09:37
PO NUMBER		COC NUMBER	No Number
PROJECT	Drinking Water		
PROJECT INFO			

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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.

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

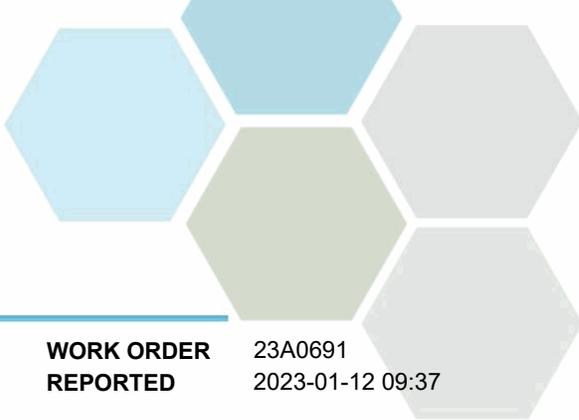
If you have any questions or concerns, please contact me at TeamCaro@caro.ca

Authorized By:

Team CARO
Client Service Representative

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 | #108 4475 Wayburne Drive Burnaby, BC V5G 4X4



TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 23A0691
2023-01-12 09:37

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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City Works Yard (23A0691-01) | Matrix: Water | Sampled: 2023-01-09 09:15

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-01-10	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-01-10	

Chevron (23A0691-02) | Matrix: Water | Sampled: 2023-01-09 10:00

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-01-10	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-01-10	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 23A0691
2023-01-12 09:37

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 received 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.



CERTIFICATE OF ANALYSIS

REPORTED TO Revelstoke, City of
1200 East Victoria Road, Box 170
Revelstoke, BC V0E 2S0

ATTENTION Doug Pendergast

PO NUMBER
PROJECT Drinking Water
PROJECT INFO

WORK ORDER 23A1499

RECEIVED / TEMP 2023-01-17 08:45 / 4.6°C
REPORTED 2023-01-19 10:18
COC NUMBER No Number

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



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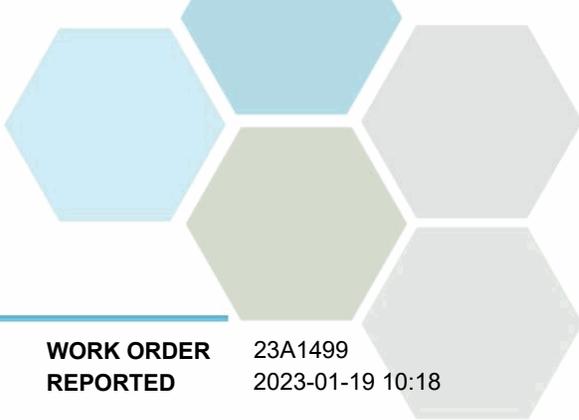
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TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 23A1499
2023-01-19 10:18

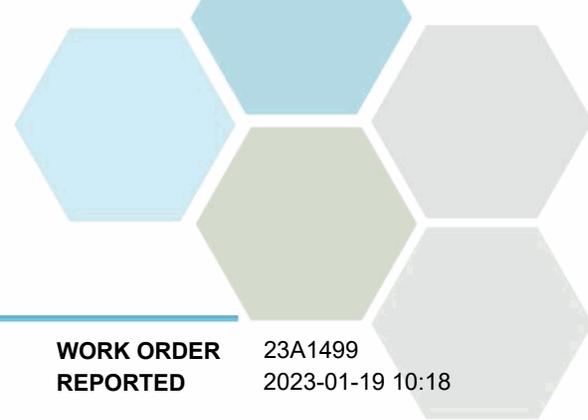
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Queen Victoria Hospital (23A1499-01) Matrix: Water Sampled: 2023-01-16 09:50						
<i>Microbiological Parameters</i>						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-01-17	HT3
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-01-17	HT3

Lagoon (23A1499-02) | Matrix: Water | Sampled: 2023-01-16 10:05

<i>Microbiological Parameters</i>						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2023-01-17	HT3
E. coli	< 1	MAC = 0	1	CFU/100 mL	2023-01-17	HT3

Sample Qualifiers:

HT3 Microbiological analysis was initiated beyond the maximum holding time of 30 hours. Results may not be valid.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 23A1499
2023-01-19 10:18

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2015)	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:

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