

## CERTIFICATE OF ANALYSIS

**REPORTED TO** Mid Shuswap Lumby Water Stewards  
1631 Mable Lake Rd  
Lumby, BC V0E 2G6

**ATTENTION** Russ Collins

**PO NUMBER** Mid Shuswap Lumby Water Stewards  
**PROJECT** Analytical Testing

**PROJECT INFO**

**WORK ORDER** 26E2164

**RECEIVED / TEMP** 2026-05-19 15:10 / 2.9°C  
**REPORTED** 2026-05-26 12:44

**COC NUMBER** 40837.5581

### 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.

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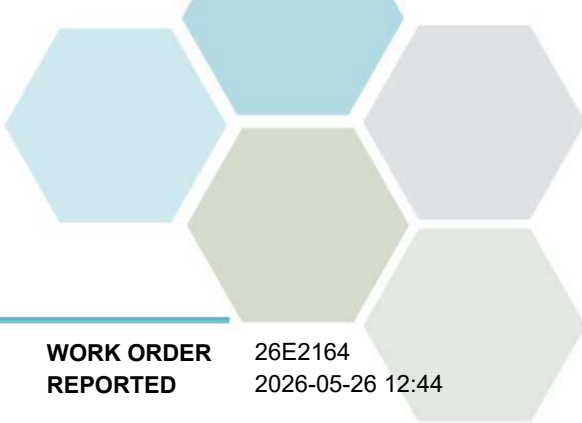
If you have any questions or concerns, please contact me at [hhannaoui@caro.ca](mailto:hhannaoui@caro.ca)

### Authorized By:

Hanane El Hannaoui  
Junior Account Manager

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# TEST RESULTS

**REPORTED TO PROJECT** Mid Shuswap Lumby Water Stewards Analytical Testing

**WORK ORDER REPORTED** 26E2164  
2026-05-26 12:44

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
<b>CR17 (26E2164-01)   Matrix: Water   Sampled: 2026-05-18 14:15</b>					
<i>Anions</i>					
Nitrate (as N)	0.011	MAC = 10	0.010 mg/L	2026-05-20	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2026-05-20	
<i>Calculated Parameters</i>					
Nitrate+Nitrite (as N)	0.0113	N/A	0.0100 mg/L	N/A	
Nitrogen, Total	0.253	N/A	0.0500 mg/L	N/A	
<i>General Parameters</i>					
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2026-05-21	
Nitrogen, Total Kjeldahl	0.242	N/A	0.050 mg/L	2026-05-25	
Phosphorus, Total (as P)	0.0242	N/A	0.0050 mg/L	2026-05-25	
Phosphorus, Dissolved Reactive	0.0141	N/A	0.0050 mg/L	2026-05-21	
Solids, Total Suspended	4.8	N/A	1.8 mg/L	2026-05-25	
Turbidity	1.62	OG < 1	0.10 NTU	2026-05-21	
<i>Microbiological Parameters</i>					
E. coli (Q-Tray)	24	MAC = 0	1 MPN/100 mL	2026-05-19	

**CR13 (26E2164-02) | Matrix: Water | Sampled: 2026-05-18 14:40**

<i>Anions</i>					
Nitrate (as N)	0.014	MAC = 10	0.010 mg/L	2026-05-20	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2026-05-20	
<i>Calculated Parameters</i>					
Nitrate+Nitrite (as N)	0.0139	N/A	0.0100 mg/L	N/A	
Nitrogen, Total	0.371	N/A	0.0500 mg/L	N/A	
<i>General Parameters</i>					
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2026-05-21	
Nitrogen, Total Kjeldahl	0.357	N/A	0.050 mg/L	2026-05-25	
Phosphorus, Total (as P)	0.0286	N/A	0.0050 mg/L	2026-05-25	
Phosphorus, Dissolved Reactive	0.0134	N/A	0.0050 mg/L	2026-05-21	
Solids, Total Suspended	5.2	N/A	1.8 mg/L	2026-05-21	
Turbidity	3.26	OG < 1	0.10 NTU	2026-05-21	
<i>Microbiological Parameters</i>					
E. coli (Q-Tray)	147	MAC = 0	1 MPN/100 mL	2026-05-19	

**CR00 (26E2164-03) | Matrix: Water | Sampled: 2026-05-18 15:00**

PRES

<i>Anions</i>					
Nitrate (as N)	0.021	MAC = 10	0.010 mg/L	2026-05-20	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2026-05-20	



## TEST RESULTS

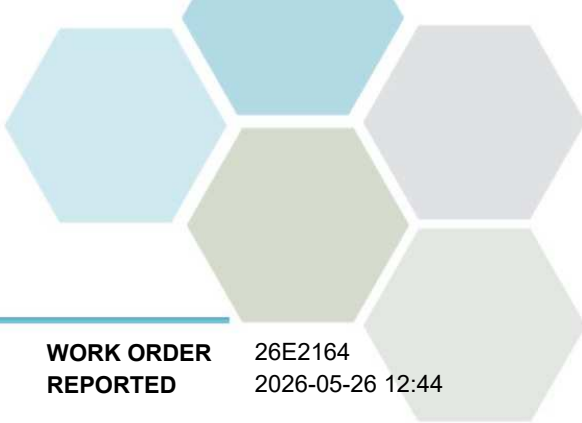
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Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
<b>CR00 (26E2164-03)   Matrix: Water   Sampled: 2026-05-18 15:00, Continued</b>					<b>PRES</b>
<b>Calculated Parameters</b>					
Nitrate+Nitrite (as N)	0.0211	N/A	0.0100 mg/L	N/A	
Nitrogen, Total	0.460	N/A	0.0500 mg/L	N/A	
<b>General Parameters</b>					
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2026-05-21	
Nitrogen, Total Kjeldahl	0.439	N/A	0.050 mg/L	2026-05-25	
Phosphorus, Total (as P)	0.0262	N/A	0.0050 mg/L	2026-05-25	
Phosphorus, Dissolved Reactive	0.0139	N/A	0.0050 mg/L	2026-05-21	
Solids, Total Suspended	8.0	N/A	1.8 mg/L	2026-05-21	
Turbidity	3.71	OG < 1	0.10 NTU	2026-05-21	
<b>Microbiological Parameters</b>					
E. coli (Q-Tray)	156	MAC = 0	1 MPN/100 mL	2026-05-19	

**Sample Qualifiers:**

PRES Sample has been preserved for TP/NH3/TKN in the laboratory and the holding time has been extended.



## APPENDIX 1: SUPPORTING INFORMATION

**REPORTED TO PROJECT** Mid Shuswap Lumby Water Stewards  
Analytical Testing

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Analysis Description	Method Ref.	Technique	Accredited	Location
Ammonia, Total in Water	SM 4500-NH3 G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
E. coli in Water	SM 9223 (2016)	Quanti-Tray / Enzyme Substrate Endo Agar	✓	Kelowna
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2021)	Block Digestion and Flow Injection Analysis	✓	Kelowna
Phosphorus, Dissolved Reactive in Water	SM 4500-P F (2021)	Automated Colorimetry (Ascorbic Acid)	✓	Kelowna
Phosphorus, Total in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2021)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	✓	Kelowna
Solids, Total Suspended in Water	Solids in Water, Filtered / SM 2540 D* (2020)	Solids in Water, Filtered / Gravimetry (Dried at 103-105C)	✓	Kelowna
Turbidity in Water	SM 2130 B (2020)	Nephelometry	✓	Kelowna

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

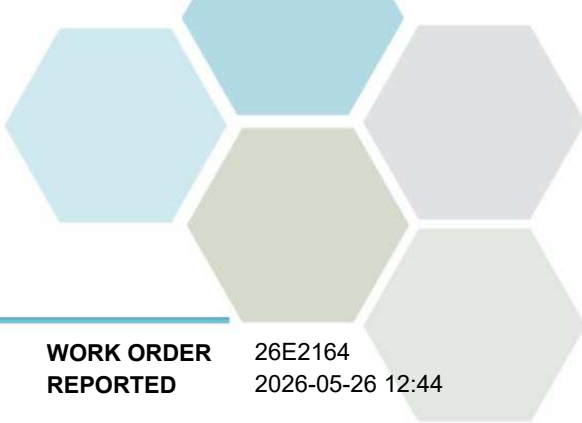
### Glossary of Terms:

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
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
MPN/100 mL	Most Probable Number per 100 millilitres
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

### Guidelines Referenced in this Report:

[Guidelines for Canadian Drinking Water Quality \(Health Canada\)](#)

*Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user*



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**General Comments:**

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