



## 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** 22E2023

**RECEIVED / TEMP** 2022-05-16 09:27 / 3.3°C  
**REPORTED** 2022-05-30 14:44

**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.

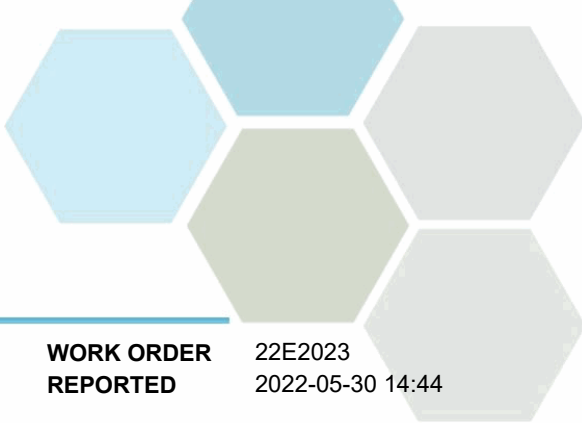
If you have any questions or concerns, please contact me at [TeamCaro@caro.ca](mailto:TeamCaro@caro.ca)

### Authorized By:

Team CARO  
Client Service Representative

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# TEST RESULTS

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

**WORK ORDER REPORTED** 22E2023  
2022-05-30 14:44

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
<b>Harris Creek (Hwy 6) (22E2023-01)   Matrix: Water   Sampled: 2022-05-15 11:00</b>						<b>FILT, PRES</b>

**Anions**

Chloride	<b>0.54</b>	AO ≤ 250	0.10	mg/L	2022-05-18	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2022-05-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2022-05-18	
Sulfate	<b>10.3</b>	AO ≤ 500	1.0	mg/L	2022-05-18	

**Calculated Parameters**

Hardness, Total (as CaCO3)	<b>44.4</b>	None Required	0.125	mg/L	N/A	
Nitrate+Nitrite (as N)	< 0.0100	N/A	0.0100	mg/L	N/A	
Nitrogen, Total	<b>0.326</b>	N/A	0.0500	mg/L	N/A	

**General Parameters**

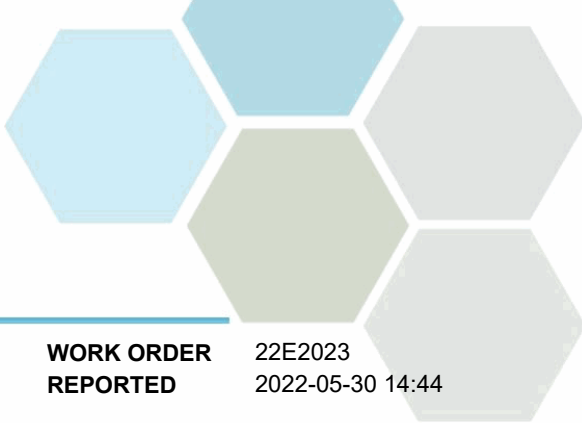
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2022-05-17	
Conductivity (EC)	<b>102</b>	N/A	2.0	µS/cm	2022-05-20	
Nitrogen, Total Kjeldahl	<b>0.326</b>	N/A	0.050	mg/L	2022-05-22	
pH	<b>6.95</b>	7.0-10.5	0.10	pH units	2022-05-20	HT2
Phosphorus, Total (as P)	<b>0.0332</b>	N/A	0.0050	mg/L	2022-05-20	
Phosphorus, Total Dissolved	<b>0.0255</b>	N/A	0.0050	mg/L	2022-05-20	
Turbidity	<b>2.68</b>	OG < 1	0.10	NTU	2022-05-17	

**Microbiological Parameters**

Coliforms, Total (Q-Tray)	<b>291</b>	MAC = 0	1	MPN/100 mL	2022-05-16	
Coliforms, Fecal (Q-Tray)	<b>187</b>	N/A	1	MPN/100 mL	2022-05-16	
E. coli (Q-Tray)	<b>119</b>	MAC = 0	1	MPN/100 mL	2022-05-16	

**Total Metals**

Aluminum, total	<b>284</b>	OG < 100	2.0	µg/L	2022-05-28	
Antimony, total	< 0.050	MAC = 6	0.050	µg/L	2022-05-28	
Arsenic, total	<b>0.421</b>	MAC = 10	0.050	µg/L	2022-05-28	
Barium, total	<b>11.2</b>	MAC = 2000	0.10	µg/L	2022-05-28	
Beryllium, total	<b>0.031</b>	N/A	0.010	µg/L	2022-05-29	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2022-05-28	
Boron, total	<b>2.8</b>	MAC = 5000	2.0	µg/L	2022-05-28	
Cadmium, total	<b>0.0109</b>	MAC = 5	0.0020	µg/L	2022-05-28	
Calcium, total	<b>12400</b>	N/A	50	µg/L	2022-05-28	
Chromium, total	<b>0.54</b>	MAC = 50	0.10	µg/L	2022-05-28	
Cobalt, total	<b>0.145</b>	N/A	0.0050	µg/L	2022-05-29	
Copper, total	<b>2.18</b>	MAC = 2000	0.20	µg/L	2022-05-28	
Iron, total	<b>346</b>	AO ≤ 300	2.0	µg/L	2022-05-28	
Lead, total	<b>0.072</b>	MAC = 5	0.050	µg/L	2022-05-28	
Lithium, total	<b>2.31</b>	N/A	0.050	µg/L	2022-05-28	
Magnesium, total	<b>3260</b>	N/A	5.0	µg/L	2022-05-28	
Manganese, total	<b>14.8</b>	MAC = 120	0.050	µg/L	2022-05-28	
Mercury, total	< 0.0050	MAC = 1	0.0050	µg/L	2022-05-27	
Molybdenum, total	<b>0.795</b>	N/A	0.010	µg/L	2022-05-28	



# TEST RESULTS

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

**WORK ORDER REPORTED** 22E2023  
2022-05-30 14:44

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
<b>Harris Creek (Hwy 6) (22E2023-01)   Matrix: Water   Sampled: 2022-05-15 11:00, Continued</b>						<b>FILT, PRES</b>

**Total Metals, Continued**

Nickel, total	5.75	N/A	0.040	µg/L	2022-05-28	
Phosphorus, total	19	N/A	10	µg/L	2022-05-28	
Potassium, total	1510	N/A	20	µg/L	2022-05-28	
Selenium, total	0.23	MAC = 50	0.10	µg/L	2022-05-28	
Silicon, total	8940	N/A	100	µg/L	2022-05-28	
Silver, total	< 0.010	N/A	0.010	µg/L	2022-05-28	
Sodium, total	3430	AO ≤ 200000	20	µg/L	2022-05-28	
Strontium, total	69.8	MAC = 7000	0.10	µg/L	2022-05-28	
Sulfur, total	3500	N/A	1000	µg/L	2022-05-28	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Thallium, total	0.0075	N/A	0.0040	µg/L	2022-05-28	
Thorium, total	0.037	N/A	0.010	µg/L	2022-05-28	
Tin, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Titanium, total	11.2	N/A	0.20	µg/L	2022-05-28	
Tungsten, total	< 0.20	N/A	0.20	µg/L	2022-05-28	
Uranium, total	0.344	MAC = 20	0.0010	µg/L	2022-05-28	
Vanadium, total	1.29	N/A	1.00	µg/L	2022-05-28	
Zinc, total	2.1	AO ≤ 5000	1.0	µg/L	2022-05-28	
Zirconium, total	0.916	N/A	0.020	µg/L	2022-05-28	

**Duteau Creek (Hwy 6) (22E2023-02) | Matrix: Water | Sampled: 2022-05-15 11:15**

**FILT, PRES**

**Calculated Parameters**

Hardness, Total (as CaCO3)	80.4	None Required	0.125	mg/L	N/A	
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**General Parameters**

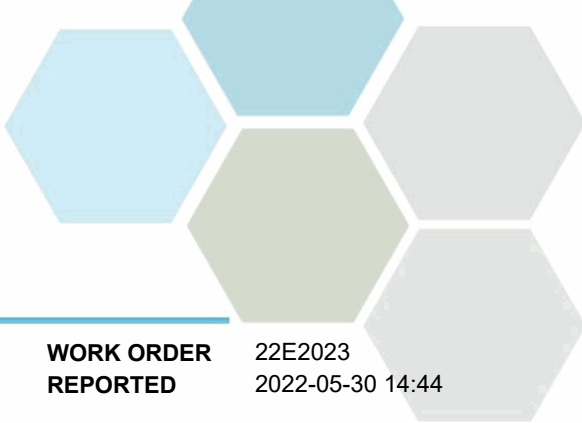
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2022-05-17	
Nitrogen, Total Kjeldahl	0.351	N/A	0.050	mg/L	2022-05-22	
Phosphorus, Total (as P)	0.0301	N/A	0.0050	mg/L	2022-05-20	

**Microbiological Parameters**

Coliforms, Total (Q-Tray)	130	MAC = 0	1	MPN/100 mL	2022-05-16	
Coliforms, Fecal (Q-Tray)	36	N/A	1	MPN/100 mL	2022-05-16	
E. coli (Q-Tray)	33	MAC = 0	1	MPN/100 mL	2022-05-16	

**Total Metals**

Aluminum, total	136	OG < 100	2.0	µg/L	2022-05-28	
Antimony, total	< 0.050	MAC = 6	0.050	µg/L	2022-05-28	
Arsenic, total	0.260	MAC = 10	0.050	µg/L	2022-05-28	
Barium, total	20.2	MAC = 2000	0.10	µg/L	2022-05-28	
Beryllium, total	0.016	N/A	0.010	µg/L	2022-05-29	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2022-05-28	
Boron, total	3.4	MAC = 5000	2.0	µg/L	2022-05-28	



# TEST RESULTS

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Analytical Testing

**WORK ORDER REPORTED** 22E2023  
2022-05-30 14:44

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
<b>Duteau Creek (Hwy 6) (22E2023-02)   Matrix: Water   Sampled: 2022-05-15 11:15, Continued</b>						<b>FILT, PRES</b>

**Total Metals, Continued**

Cadmium, total	0.0120	MAC = 5	0.0020	µg/L	2022-05-28	
Calcium, total	23700	N/A	50	µg/L	2022-05-28	
Chromium, total	0.44	MAC = 50	0.10	µg/L	2022-05-28	
Cobalt, total	0.181	N/A	0.0050	µg/L	2022-05-28	
Copper, total	1.22	MAC = 2000	0.20	µg/L	2022-05-28	
Iron, total	487	AO ≤ 300	2.0	µg/L	2022-05-28	
Lead, total	< 0.050	MAC = 5	0.050	µg/L	2022-05-28	
Lithium, total	1.75	N/A	0.050	µg/L	2022-05-28	
Magnesium, total	5160	N/A	5.0	µg/L	2022-05-28	
Manganese, total	72.5	MAC = 120	0.050	µg/L	2022-05-28	
Mercury, total	< 0.0050	MAC = 1	0.0050	µg/L	2022-05-27	
Molybdenum, total	1.43	N/A	0.010	µg/L	2022-05-28	
Nickel, total	1.06	N/A	0.040	µg/L	2022-05-28	
Phosphorus, total	27	N/A	10	µg/L	2022-05-28	
Potassium, total	1790	N/A	20	µg/L	2022-05-28	
Selenium, total	0.59	MAC = 50	0.10	µg/L	2022-05-28	
Silicon, total	6800	N/A	100	µg/L	2022-05-28	
Silver, total	< 0.010	N/A	0.010	µg/L	2022-05-28	
Sodium, total	4440	AO ≤ 200000	20	µg/L	2022-05-28	
Strontium, total	137	MAC = 7000	0.10	µg/L	2022-05-28	
Sulfur, total	6200	N/A	1000	µg/L	2022-05-28	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Thallium, total	< 0.0040	N/A	0.0040	µg/L	2022-05-28	
Thorium, total	0.024	N/A	0.010	µg/L	2022-05-28	
Tin, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Titanium, total	7.01	N/A	0.20	µg/L	2022-05-28	
Tungsten, total	< 0.20	N/A	0.20	µg/L	2022-05-28	
Uranium, total	0.753	MAC = 20	0.0010	µg/L	2022-05-28	
Vanadium, total	< 1.00	N/A	1.00	µg/L	2022-05-28	
Zinc, total	1.6	AO ≤ 5000	1.0	µg/L	2022-05-28	
Zirconium, total	0.426	N/A	0.020	µg/L	2022-05-28	

**Mid Bessette Creek (22E2023-03) | Matrix: Water | Sampled: 2022-05-15 10:30**

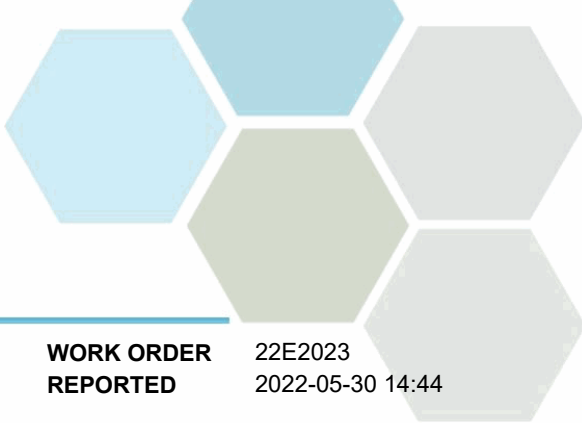
**FILT, PRES**

**Anions**

Chloride	2.22	AO ≤ 250	0.10	mg/L	2022-05-18	
Nitrate (as N)	0.098	MAC = 10	0.010	mg/L	2022-05-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2022-05-18	
Sulfate	18.3	AO ≤ 500	1.0	mg/L	2022-05-18	

**Calculated Parameters**

Hardness, Total (as CaCO3)	82.8	None Required	0.125	mg/L	N/A	
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# TEST RESULTS

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

**WORK ORDER REPORTED** 22E2023  
2022-05-30 14:44

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
<b>Mid Bessette Creek (22E2023-03)   Matrix: Water   Sampled: 2022-05-15 10:30, Continued</b>						<b>FILT, PRES</b>

**Calculated Parameters, Continued**

Nitrate+Nitrite (as N)	<b>0.0976</b>	N/A	0.0100	mg/L	N/A	
Nitrogen, Total	<b>0.469</b>	N/A	0.0500	mg/L	N/A	

**General Parameters**

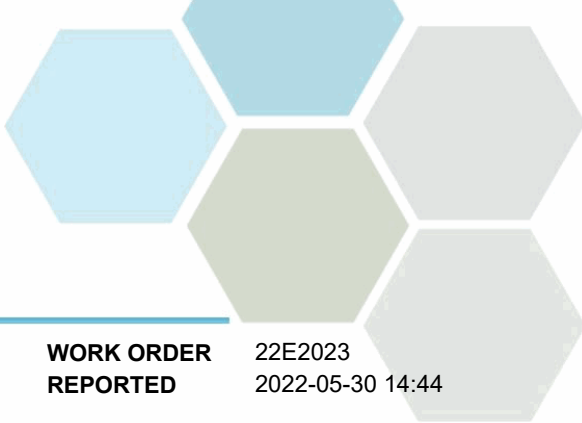
Ammonia, Total (as N)	<b>0.056</b>	None Required	0.050	mg/L	2022-05-17	
Conductivity (EC)	<b>181</b>	N/A	2.0	µS/cm	2022-05-20	
Nitrogen, Total Kjeldahl	<b>0.371</b>	N/A	0.050	mg/L	2022-05-22	
pH	<b>7.26</b>	7.0-10.5	0.10	pH units	2022-05-20	HT2
Phosphorus, Total (as P)	<b>0.0669</b>	N/A	0.0050	mg/L	2022-05-20	
Phosphorus, Total Dissolved	<b>0.0207</b>	N/A	0.0050	mg/L	2022-05-20	
Turbidity	<b>6.87</b>	OG < 1	0.10	NTU	2022-05-17	

**Microbiological Parameters**

Coliforms, Total (Q-Tray)	<b>308</b>	MAC = 0	1	MPN/100 mL	2022-05-16	
Coliforms, Fecal (Q-Tray)	<b>58</b>	N/A	1	MPN/100 mL	2022-05-16	
E. coli (Q-Tray)	<b>43</b>	MAC = 0	1	MPN/100 mL	2022-05-16	

**Total Metals**

Aluminum, total	<b>431</b>	OG < 100	2.0	µg/L	2022-05-28	
Antimony, total	< 0.050	MAC = 6	0.050	µg/L	2022-05-28	
Arsenic, total	<b>0.632</b>	MAC = 10	0.050	µg/L	2022-05-28	
Barium, total	<b>20.4</b>	MAC = 2000	0.10	µg/L	2022-05-28	
Beryllium, total	<b>0.026</b>	N/A	0.010	µg/L	2022-05-29	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2022-05-28	
Boron, total	<b>2.6</b>	MAC = 5000	2.0	µg/L	2022-05-28	
Cadmium, total	<b>0.0455</b>	MAC = 5	0.0020	µg/L	2022-05-28	
Calcium, total	<b>25800</b>	N/A	50	µg/L	2022-05-28	
Chromium, total	<b>0.94</b>	MAC = 50	0.10	µg/L	2022-05-28	
Cobalt, total	<b>0.419</b>	N/A	0.0050	µg/L	2022-05-28	
Copper, total	<b>2.40</b>	MAC = 2000	0.20	µg/L	2022-05-28	
Iron, total	<b>828</b>	AO ≤ 300	2.0	µg/L	2022-05-28	
Lead, total	<b>0.223</b>	MAC = 5	0.050	µg/L	2022-05-28	
Lithium, total	<b>2.38</b>	N/A	0.050	µg/L	2022-05-28	
Magnesium, total	<b>4420</b>	N/A	5.0	µg/L	2022-05-28	
Manganese, total	<b>52.2</b>	MAC = 120	0.050	µg/L	2022-05-28	
Mercury, total	< 0.0050	MAC = 1	0.0050	µg/L	2022-05-27	
Molybdenum, total	<b>1.42</b>	N/A	0.010	µg/L	2022-05-28	
Nickel, total	<b>4.07</b>	N/A	0.040	µg/L	2022-05-28	
Phosphorus, total	<b>52</b>	N/A	10	µg/L	2022-05-28	
Potassium, total	<b>1580</b>	N/A	20	µg/L	2022-05-28	
Selenium, total	<b>1.15</b>	MAC = 50	0.10	µg/L	2022-05-28	
Silicon, total	<b>7800</b>	N/A	100	µg/L	2022-05-28	
Silver, total	<b>0.012</b>	N/A	0.010	µg/L	2022-05-28	



# TEST RESULTS

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**WORK ORDER REPORTED** 22E2023  
2022-05-30 14:44

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
<b>Mid Bessette Creek (22E2023-03)   Matrix: Water   Sampled: 2022-05-15 10:30, Continued</b>						<b>FILT, PRES</b>

**Total Metals, Continued**

Sodium, total	3750	AO ≤ 200000	20	µg/L	2022-05-28	
Strontium, total	153	MAC = 7000	0.10	µg/L	2022-05-28	
Sulfur, total	6000	N/A	1000	µg/L	2022-05-28	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Thallium, total	0.0086	N/A	0.0040	µg/L	2022-05-28	
Thorium, total	0.041	N/A	0.010	µg/L	2022-05-28	
Tin, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Titanium, total	20.3	N/A	0.20	µg/L	2022-05-28	
Tungsten, total	< 0.20	N/A	0.20	µg/L	2022-05-28	
Uranium, total	0.734	MAC = 20	0.0010	µg/L	2022-05-28	
Vanadium, total	1.92	N/A	1.00	µg/L	2022-05-28	
Zinc, total	3.7	AO ≤ 5000	1.0	µg/L	2022-05-28	
Zirconium, total	0.617	N/A	0.020	µg/L	2022-05-28	

**Lower Bessette Creek (22E2023-04) | Matrix: Water | Sampled: 2022-05-15 10:10**

**FILT, PRES**

**Anions**

Chloride	2.37	AO ≤ 250	0.10	mg/L	2022-05-18	
Nitrate (as N)	0.080	MAC = 10	0.010	mg/L	2022-05-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2022-05-18	
Sulfate	22.3	AO ≤ 500	1.0	mg/L	2022-05-18	

**Calculated Parameters**

Hardness, Total (as CaCO3)	87.9	None Required	0.125	mg/L	N/A	
Nitrate+Nitrite (as N)	0.0799	N/A	0.0100	mg/L	N/A	
Nitrogen, Total	0.415	N/A	0.0500	mg/L	N/A	

**General Parameters**

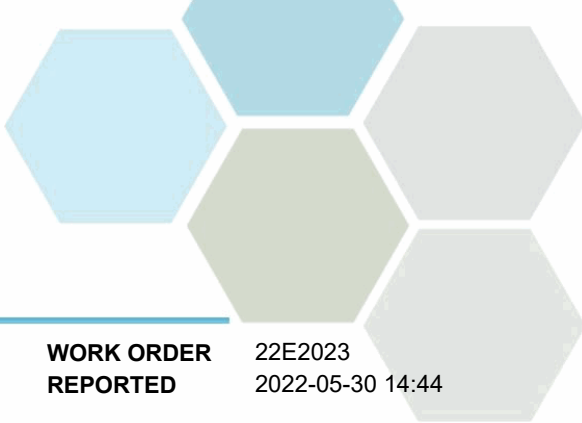
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2022-05-17	
Conductivity (EC)	195	N/A	2.0	µS/cm	2022-05-20	
Nitrogen, Total Kjeldahl	0.335	N/A	0.050	mg/L	2022-05-22	
pH	7.45	7.0-10.5	0.10	pH units	2022-05-20	HT2
Phosphorus, Total (as P)	0.0434	N/A	0.0050	mg/L	2022-05-20	
Phosphorus, Total Dissolved	0.0200	N/A	0.0050	mg/L	2022-05-20	
Turbidity	6.94	OG < 1	0.10	NTU	2022-05-17	

**Microbiological Parameters**

Coliforms, Total (Q-Tray)	326	MAC = 0	1	MPN/100 mL	2022-05-16	HT1
Coliforms, Fecal (Q-Tray)	40	N/A	1	MPN/100 mL	2022-05-16	HT1
E. coli (Q-Tray)	40	MAC = 0	1	MPN/100 mL	2022-05-16	HT1

**Total Metals**

Aluminum, total	356	OG < 100	2.0	µg/L	2022-05-28	
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# TEST RESULTS

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Analytical Testing

**WORK ORDER REPORTED** 22E2023  
2022-05-30 14:44

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
<b>Lower Bessette Creek (22E2023-04)   Matrix: Water   Sampled: 2022-05-15 10:10, Continued</b>						<b>FILT, PRES</b>

**Total Metals, Continued**

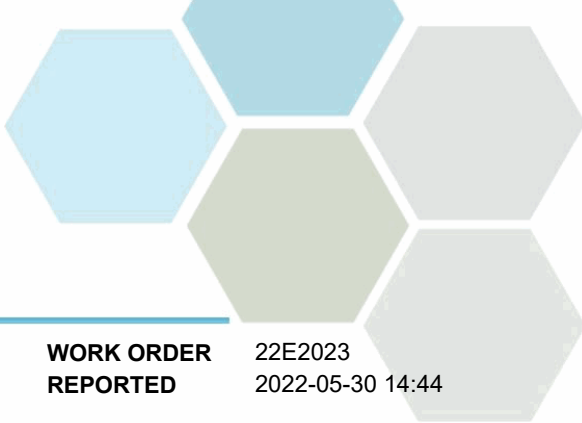
Antimony, total	< 0.050	MAC = 6	0.050	µg/L	2022-05-28	
Arsenic, total	<b>0.511</b>	MAC = 10	0.050	µg/L	2022-05-28	
Barium, total	<b>20.2</b>	MAC = 2000	0.10	µg/L	2022-05-28	
Beryllium, total	<b>0.018</b>	N/A	0.010	µg/L	2022-05-29	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2022-05-28	
Boron, total	<b>2.4</b>	MAC = 5000	2.0	µg/L	2022-05-28	
Cadmium, total	<b>0.0323</b>	MAC = 5	0.0020	µg/L	2022-05-28	
Calcium, total	<b>27400</b>	N/A	50	µg/L	2022-05-28	
Chromium, total	<b>0.75</b>	MAC = 50	0.10	µg/L	2022-05-28	
Cobalt, total	<b>0.307</b>	N/A	0.0050	µg/L	2022-05-28	
Copper, total	<b>2.04</b>	MAC = 2000	0.20	µg/L	2022-05-28	
Iron, total	<b>646</b>	AO ≤ 300	2.0	µg/L	2022-05-28	
Lead, total	<b>0.164</b>	MAC = 5	0.050	µg/L	2022-05-28	
Lithium, total	<b>2.40</b>	N/A	0.050	µg/L	2022-05-28	
Magnesium, total	<b>4730</b>	N/A	5.0	µg/L	2022-05-28	
Manganese, total	<b>39.3</b>	MAC = 120	0.050	µg/L	2022-05-28	
Mercury, total	< 0.0050	MAC = 1	0.0050	µg/L	2022-05-27	
Molybdenum, total	<b>1.49</b>	N/A	0.010	µg/L	2022-05-28	
Nickel, total	<b>3.86</b>	N/A	0.040	µg/L	2022-05-28	
Phosphorus, total	<b>30</b>	N/A	10	µg/L	2022-05-28	
Potassium, total	<b>1620</b>	N/A	20	µg/L	2022-05-28	
Selenium, total	<b>1.17</b>	MAC = 50	0.10	µg/L	2022-05-28	
Silicon, total	<b>7410</b>	N/A	100	µg/L	2022-05-28	
Silver, total	< 0.010	N/A	0.010	µg/L	2022-05-28	
Sodium, total	<b>3950</b>	AO ≤ 200000	20	µg/L	2022-05-28	
Strontium, total	<b>162</b>	MAC = 7000	0.10	µg/L	2022-05-28	
Sulfur, total	<b>6400</b>	N/A	1000	µg/L	2022-05-28	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Thallium, total	<b>0.0078</b>	N/A	0.0040	µg/L	2022-05-28	
Thorium, total	<b>0.036</b>	N/A	0.010	µg/L	2022-05-28	
Tin, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Titanium, total	<b>16.8</b>	N/A	0.20	µg/L	2022-05-28	
Tungsten, total	< 0.20	N/A	0.20	µg/L	2022-05-28	
Uranium, total	<b>0.801</b>	MAC = 20	0.0010	µg/L	2022-05-28	
Vanadium, total	<b>1.68</b>	N/A	1.00	µg/L	2022-05-28	
Zinc, total	<b>2.8</b>	AO ≤ 5000	1.0	µg/L	2022-05-28	
Zirconium, total	<b>0.623</b>	N/A	0.020	µg/L	2022-05-28	

**Shuswap River (Wilsey Dam) (22E2023-05) | Matrix: Water | Sampled: 2022-05-15 09:50**

**FILT, PRES**

**Anions**

Chloride	<b>0.29</b>	AO ≤ 250	0.10	mg/L	2022-05-18	
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# TEST RESULTS

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

**WORK ORDER REPORTED** 22E2023  
2022-05-30 14:44

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
<b>Shuswap River (Wilsey Dam) (22E2023-05)   Matrix: Water   Sampled: 2022-05-15 09:50, Continued</b>					<b>FILT, PRES</b>

**Anions, Continued**

Nitrate (as N)	<b>0.041</b>	MAC = 10	0.010 mg/L	2022-05-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2022-05-18	
Sulfate	<b>5.9</b>	AO ≤ 500	1.0 mg/L	2022-05-18	

**Calculated Parameters**

Hardness, Total (as CaCO3)	<b>46.8</b>	None Required	0.125 mg/L	N/A	
Nitrate+Nitrite (as N)	<b>0.0412</b>	N/A	0.0100 mg/L	N/A	
Nitrogen, Total	<b>0.0962</b>	N/A	0.0500 mg/L	N/A	

**General Parameters**

Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2022-05-17	
Conductivity (EC)	<b>100</b>	N/A	2.0 µS/cm	2022-05-20	
Nitrogen, Total Kjeldahl	<b>0.055</b>	N/A	0.050 mg/L	2022-05-22	
pH	<b>7.38</b>	7.0-10.5	0.10 pH units	2022-05-20	HT2
Phosphorus, Total (as P)	<b>0.0092</b>	N/A	0.0050 mg/L	2022-05-20	
Phosphorus, Total Dissolved	< 0.0050	N/A	0.0050 mg/L	2022-05-20	
Turbidity	<b>2.26</b>	OG < 1	0.10 NTU	2022-05-17	

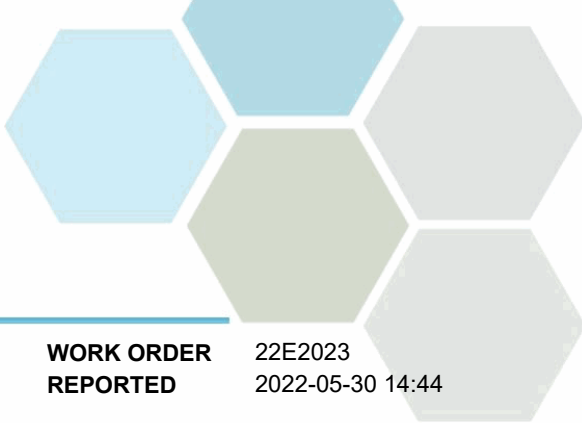
**Microbiological Parameters**

Coliforms, Total (Q-Tray)	<b>96</b>	MAC = 0	1 MPN/100 mL	2022-05-16	HT1
Coliforms, Fecal (Q-Tray)	<b>6</b>	N/A	1 MPN/100 mL	2022-05-16	HT1
E. coli (Q-Tray)	<b>4</b>	MAC = 0	1 MPN/100 mL	2022-05-16	HT1

**Total Metals**

Aluminum, total	<b>90.4</b>	OG < 100	2.0 µg/L	2022-05-28	
Antimony, total	< 0.050	MAC = 6	0.050 µg/L	2022-05-28	
Arsenic, total	<b>0.167</b>	MAC = 10	0.050 µg/L	2022-05-28	
Barium, total	<b>9.88</b>	MAC = 2000	0.10 µg/L	2022-05-28	
Beryllium, total	< 0.010	N/A	0.010 µg/L	2022-05-29	
Bismuth, total	< 0.010	N/A	0.010 µg/L	2022-05-28	
Boron, total	< 2.0	MAC = 5000	2.0 µg/L	2022-05-28	
Cadmium, total	<b>0.0099</b>	MAC = 5	0.0020 µg/L	2022-05-28	
Calcium, total	<b>15400</b>	N/A	50 µg/L	2022-05-28	
Chromium, total	<b>0.43</b>	MAC = 50	0.10 µg/L	2022-05-28	
Cobalt, total	<b>0.0987</b>	N/A	0.0050 µg/L	2022-05-28	
Copper, total	<b>0.59</b>	MAC = 2000	0.20 µg/L	2022-05-28	
Iron, total	<b>153</b>	AO ≤ 300	2.0 µg/L	2022-05-28	
Lead, total	< 0.050	MAC = 5	0.050 µg/L	2022-05-28	
Lithium, total	<b>0.654</b>	N/A	0.050 µg/L	2022-05-28	
Magnesium, total	<b>2000</b>	N/A	5.0 µg/L	2022-05-28	
Manganese, total	<b>6.93</b>	MAC = 120	0.050 µg/L	2022-05-28	
Mercury, total	< 0.0050	MAC = 1	0.0050 µg/L	2022-05-27	
Molybdenum, total	<b>0.621</b>	N/A	0.010 µg/L	2022-05-28	
Nickel, total	<b>0.423</b>	N/A	0.040 µg/L	2022-05-28	





# TEST RESULTS

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

**WORK ORDER REPORTED** 22E2023  
2022-05-30 14:44

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
<b>Shuswap River (Wilsey Dam) (22E2023-05)   Matrix: Water   Sampled: 2022-05-15 09:50, Continued</b>						<b>FILT, PRES</b>

**Total Metals, Continued**

Phosphorus, total	< 10	N/A	10	µg/L	2022-05-28	
Potassium, total	<b>816</b>	N/A	20	µg/L	2022-05-28	
Selenium, total	<b>0.37</b>	MAC = 50	0.10	µg/L	2022-05-28	
Silicon, total	<b>3490</b>	N/A	100	µg/L	2022-05-28	
Silver, total	< 0.010	N/A	0.010	µg/L	2022-05-28	
Sodium, total	<b>1070</b>	AO ≤ 200000	20	µg/L	2022-05-28	
Strontium, total	<b>71.6</b>	MAC = 7000	0.10	µg/L	2022-05-28	
Sulfur, total	<b>2000</b>	N/A	1000	µg/L	2022-05-28	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Thallium, total	< 0.0040	N/A	0.0040	µg/L	2022-05-28	
Thorium, total	< 0.010	N/A	0.010	µg/L	2022-05-28	
Tin, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Titanium, total	<b>4.78</b>	N/A	0.20	µg/L	2022-05-28	
Tungsten, total	< 0.20	N/A	0.20	µg/L	2022-05-28	
Uranium, total	<b>0.337</b>	MAC = 20	0.0010	µg/L	2022-05-28	
Vanadium, total	< 1.00	N/A	1.00	µg/L	2022-05-28	
Zinc, total	<b>1.0</b>	AO ≤ 5000	1.0	µg/L	2022-05-28	
Zirconium, total	<b>0.045</b>	N/A	0.020	µg/L	2022-05-28	

**Shuswap River (Odd Fellows) (22E2023-06) | Matrix: Water | Sampled: 2022-05-15 09:15**

**FILT, PRES**

**Anions**

Chloride	<b>0.50</b>	AO ≤ 250	0.10	mg/L	2022-05-18	
Nitrate (as N)	<b>0.043</b>	MAC = 10	0.010	mg/L	2022-05-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2022-05-18	
Sulfate	<b>7.4</b>	AO ≤ 500	1.0	mg/L	2022-05-18	

**Calculated Parameters**

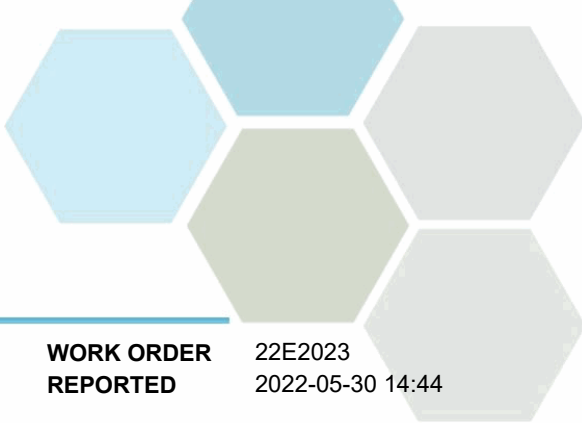
Hardness, Total (as CaCO3)	<b>56.1</b>	None Required	0.125	mg/L	N/A	
Nitrate+Nitrite (as N)	<b>0.0427</b>	N/A	0.0100	mg/L	N/A	
Nitrogen, Total	<b>0.162</b>	N/A	0.0500	mg/L	N/A	

**General Parameters**

Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2022-05-17	
Conductivity (EC)	<b>115</b>	N/A	2.0	µS/cm	2022-05-20	
Nitrogen, Total Kjeldahl	<b>0.119</b>	N/A	0.050	mg/L	2022-05-22	
pH	<b>7.31</b>	7.0-10.5	0.10	pH units	2022-05-20	HT2
Phosphorus, Total (as P)	<b>0.0183</b>	N/A	0.0050	mg/L	2022-05-20	
Phosphorus, Total Dissolved	< 0.0050	N/A	0.0050	mg/L	2022-05-20	
Turbidity	<b>2.97</b>	OG < 1	0.10	NTU	2022-05-17	

**Microbiological Parameters**

Coliforms, Total (Q-Tray)	<b>117</b>	MAC = 0	1	MPN/100 mL	2022-05-16	HT1
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# TEST RESULTS

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

**WORK ORDER REPORTED** 22E2023  
2022-05-30 14:44

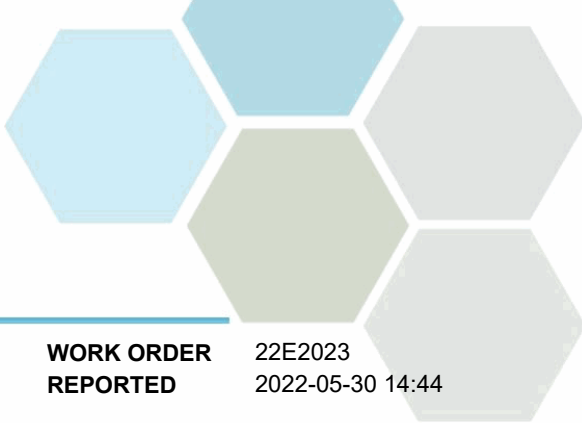
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
<b>Shuswap River (Odd Fellows) (22E2023-06)   Matrix: Water   Sampled: 2022-05-15 09:15, Continued</b>						<b>FILT, PRES</b>

**Microbiological Parameters, Continued**

Coliforms, Fecal (Q-Tray)	<b>17</b>	N/A	1	MPN/100 mL	2022-05-16	HT1
E. coli (Q-Tray)	<b>16</b>	MAC = 0	1	MPN/100 mL	2022-05-16	HT1

**Total Metals**

Aluminum, total	<b>156</b>	OG < 100	2.0	µg/L	2022-05-28	
Antimony, total	< 0.050	MAC = 6	0.050	µg/L	2022-05-28	
Arsenic, total	<b>0.243</b>	MAC = 10	0.050	µg/L	2022-05-28	
Barium, total	<b>12.0</b>	MAC = 2000	0.10	µg/L	2022-05-28	
Beryllium, total	< 0.010	N/A	0.010	µg/L	2022-05-29	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2022-05-28	
Boron, total	< 2.0	MAC = 5000	2.0	µg/L	2022-05-28	
Cadmium, total	<b>0.0181</b>	MAC = 5	0.0020	µg/L	2022-05-28	
Calcium, total	<b>18300</b>	N/A	50	µg/L	2022-05-28	
Chromium, total	<b>0.63</b>	MAC = 50	0.10	µg/L	2022-05-28	
Cobalt, total	<b>0.135</b>	N/A	0.0050	µg/L	2022-05-28	
Copper, total	<b>0.81</b>	MAC = 2000	0.20	µg/L	2022-05-28	
Iron, total	<b>264</b>	AO ≤ 300	2.0	µg/L	2022-05-28	
Lead, total	<b>0.080</b>	MAC = 5	0.050	µg/L	2022-05-28	
Lithium, total	<b>0.940</b>	N/A	0.050	µg/L	2022-05-28	
Magnesium, total	<b>2490</b>	N/A	5.0	µg/L	2022-05-28	
Manganese, total	<b>14.3</b>	MAC = 120	0.050	µg/L	2022-05-28	
Mercury, total	< 0.0050	MAC = 1	0.0050	µg/L	2022-05-27	
Molybdenum, total	<b>0.852</b>	N/A	0.010	µg/L	2022-05-28	
Nickel, total	<b>0.895</b>	N/A	0.040	µg/L	2022-05-28	
Phosphorus, total	<b>13</b>	N/A	10	µg/L	2022-05-28	
Potassium, total	<b>951</b>	N/A	20	µg/L	2022-05-28	
Selenium, total	<b>0.52</b>	MAC = 50	0.10	µg/L	2022-05-28	
Silicon, total	<b>4160</b>	N/A	100	µg/L	2022-05-28	
Silver, total	< 0.010	N/A	0.010	µg/L	2022-05-28	
Sodium, total	<b>1450</b>	AO ≤ 200000	20	µg/L	2022-05-28	
Strontium, total	<b>88.1</b>	MAC = 7000	0.10	µg/L	2022-05-28	
Sulfur, total	<b>2600</b>	N/A	1000	µg/L	2022-05-28	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Thallium, total	< 0.0040	N/A	0.0040	µg/L	2022-05-28	
Thorium, total	<b>0.013</b>	N/A	0.010	µg/L	2022-05-28	
Tin, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Titanium, total	<b>7.34</b>	N/A	0.20	µg/L	2022-05-28	
Tungsten, total	< 0.20	N/A	0.20	µg/L	2022-05-28	
Uranium, total	<b>0.438</b>	MAC = 20	0.0010	µg/L	2022-05-28	
Vanadium, total	< 1.00	N/A	1.00	µg/L	2022-05-28	
Zinc, total	<b>1.5</b>	AO ≤ 5000	1.0	µg/L	2022-05-28	
Zirconium, total	<b>0.105</b>	N/A	0.020	µg/L	2022-05-28	



# TEST RESULTS

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

**WORK ORDER REPORTED** 22E2023  
2022-05-30 14:44

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
<b>Vance Creek (Mabel Lake Rd) (22E2023-07)   Matrix: Water   Sampled: 2022-05-15 10:45</b>						<b>FILT, PRES</b>

**Anions**

Chloride	1.86	AO ≤ 250	0.10	mg/L	2022-05-18	
Nitrate (as N)	0.091	MAC = 10	0.010	mg/L	2022-05-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2022-05-18	
Sulfate	28.3	AO ≤ 500	1.0	mg/L	2022-05-18	

**Calculated Parameters**

Hardness, Total (as CaCO3)	156	None Required	0.125	mg/L	N/A	
Nitrate+Nitrite (as N)	0.0913	N/A	0.0100	mg/L	N/A	
Nitrogen, Total	0.241	N/A	0.0500	mg/L	N/A	

**General Parameters**

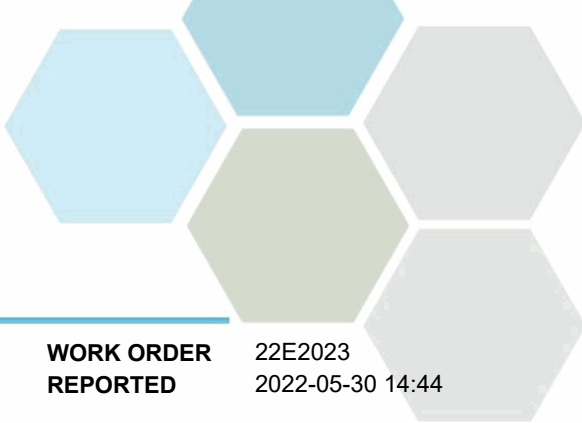
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2022-05-17	
Conductivity (EC)	315	N/A	2.0	µS/cm	2022-05-20	
Nitrogen, Total Kjeldahl	0.150	N/A	0.050	mg/L	2022-05-22	
pH	7.92	7.0-10.5	0.10	pH units	2022-05-20	HT2
Phosphorus, Total (as P)	0.0362	N/A	0.0050	mg/L	2022-05-20	
Phosphorus, Total Dissolved	0.0058	N/A	0.0050	mg/L	2022-05-20	
Turbidity	7.06	OG < 1	0.10	NTU	2022-05-17	

**Microbiological Parameters**

Coliforms, Total (Q-Tray)	517	MAC = 0	1	MPN/100 mL	2022-05-16	
Coliforms, Fecal (Q-Tray)	423	N/A	1	MPN/100 mL	2022-05-16	
E. coli (Q-Tray)	423	MAC = 0	1	MPN/100 mL	2022-05-16	

**Total Metals**

Aluminum, total	247	OG < 100	2.0	µg/L	2022-05-28	
Antimony, total	< 0.050	MAC = 6	0.050	µg/L	2022-05-28	
Arsenic, total	0.619	MAC = 10	0.050	µg/L	2022-05-28	
Barium, total	31.1	MAC = 2000	0.10	µg/L	2022-05-28	
Beryllium, total	< 0.010	N/A	0.010	µg/L	2022-05-29	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2022-05-28	
Boron, total	< 2.0	MAC = 5000	2.0	µg/L	2022-05-28	
Cadmium, total	0.0772	MAC = 5	0.0020	µg/L	2022-05-28	
Calcium, total	53600	N/A	50	µg/L	2022-05-28	
Chromium, total	0.73	MAC = 50	0.10	µg/L	2022-05-28	
Cobalt, total	0.319	N/A	0.0050	µg/L	2022-05-28	
Copper, total	1.60	MAC = 2000	0.20	µg/L	2022-05-28	
Iron, total	610	AO ≤ 300	2.0	µg/L	2022-05-28	
Lead, total	0.192	MAC = 5	0.050	µg/L	2022-05-28	
Lithium, total	1.70	N/A	0.050	µg/L	2022-05-28	
Magnesium, total	5270	N/A	5.0	µg/L	2022-05-28	
Manganese, total	15.9	MAC = 120	0.050	µg/L	2022-05-28	
Mercury, total	< 0.0050	MAC = 1	0.0050	µg/L	2022-05-27	
Molybdenum, total	1.66	N/A	0.010	µg/L	2022-05-28	



# TEST RESULTS

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

**WORK ORDER REPORTED** 22E2023  
2022-05-30 14:44

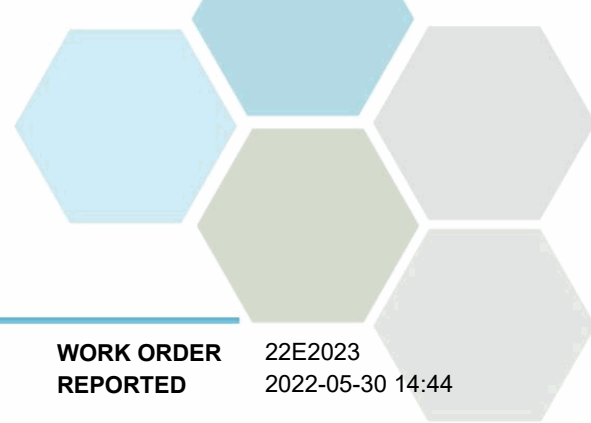
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
<b>Vance Creek (Mabel Lake Rd) (22E2023-07)   Matrix: Water   Sampled: 2022-05-15 10:45, Continued</b>						<b>FILT, PRES</b>

**Total Metals, Continued**

Nickel, total	<b>0.876</b>	N/A	0.040	µg/L	2022-05-28	
Phosphorus, total	<b>24</b>	N/A	10	µg/L	2022-05-28	
Potassium, total	<b>1240</b>	N/A	20	µg/L	2022-05-28	
Selenium, total	<b>3.50</b>	MAC = 50	0.10	µg/L	2022-05-28	
Silicon, total	<b>5590</b>	N/A	100	µg/L	2022-05-28	
Silver, total	<b>0.014</b>	N/A	0.010	µg/L	2022-05-28	
Sodium, total	<b>2090</b>	AO ≤ 200000	20	µg/L	2022-05-28	
Strontium, total	<b>333</b>	MAC = 7000	0.10	µg/L	2022-05-28	
Sulfur, total	<b>8900</b>	N/A	1000	µg/L	2022-05-28	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Thallium, total	< 0.0040	N/A	0.0040	µg/L	2022-05-28	
Thorium, total	<b>0.016</b>	N/A	0.010	µg/L	2022-05-28	
Tin, total	< 0.050	N/A	0.050	µg/L	2022-05-28	
Titanium, total	<b>5.92</b>	N/A	0.20	µg/L	2022-05-28	
Tungsten, total	< 0.20	N/A	0.20	µg/L	2022-05-28	
Uranium, total	<b>0.777</b>	MAC = 20	0.0010	µg/L	2022-05-28	
Vanadium, total	<b>1.13</b>	N/A	1.00	µg/L	2022-05-28	
Zinc, total	<b>3.7</b>	AO ≤ 5000	1.0	µg/L	2022-05-28	
Zirconium, total	<b>0.048</b>	N/A	0.020	µg/L	2022-05-28	

**Sample Qualifiers:**

- FILT** The sample has been filtered for Diss P in the laboratory. Results may not reflect conditions at the time of sampling.
- HT1** The sample was prepared and/or analyzed past the recommended holding time.
- HT2** The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
- PRES** Sample has been preserved for Diss P in the laboratory and the holding time has been extended.



## APPENDIX 1: SUPPORTING INFORMATION

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

**WORK ORDER REPORTED** 22E2023  
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Analysis Description	Method Ref.	Technique	Accredited	Location
Ammonia, Total in Water	SM 4500-NH3 G* (2017)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2017)	Ion Chromatography	✓	Kelowna
Coliforms, Fecal in Water	NA / SM 9223 (2017)	Quanti-Tray / Enzyme Substrate Endo Agar	✓	Kelowna
Coliforms, Total in Water	NA / SM 9223 (2017)	Quanti-Tray / Enzyme Substrate Endo Agar	✓	Kelowna
Conductivity in Water	SM 2510 B (2017)	Conductivity Meter	✓	Kelowna
E. coli in Water	NA / SM 9223 (2017)	Quanti-Tray / Enzyme Substrate Endo Agar	✓	Kelowna
Hardness in Water	SM 2340 B* (2017)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Mercury, total in Water	EPA 245.7*	BrCl <sub>2</sub> Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2017)	Block Digestion and Flow Injection Analysis	✓	Kelowna
pH in Water	SM 4500-H+ B (2017)	Electrometry	✓	Kelowna
Phosphorus, Total Dissolved in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2017)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	✓	Kelowna
Phosphorus, Total in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2017)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	✓	Kelowna
Total Metals in Water	EPA 200.2* / EPA 6020B	HNO <sub>3</sub> +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*

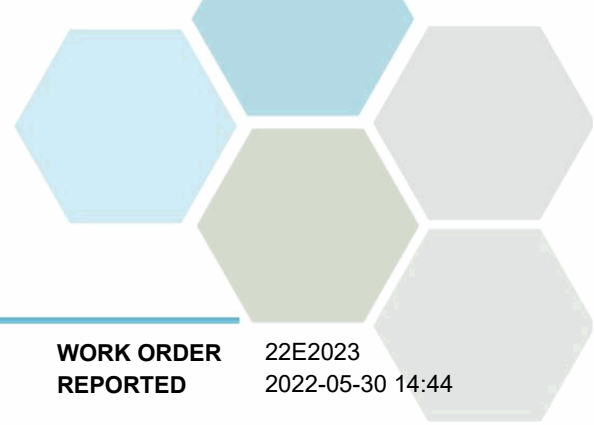
### Glossary of Terms:

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
AO	Aesthetic Objective
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)
pH units	pH < 7 = acidic, pH > 7 = basic
µg/L	Micrograms per litre
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
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 \(Health Canada, June 2019\)](#)

*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:

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](mailto:TeamCaro@caro.ca)

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