



## CERTIFICATE OF ANALYSIS

<b>REPORTED TO</b>	Yukon Government - Department of Education 1000 Lewes Blvd. Whitehorse, YT Y1A 6N2	<b>WORK ORDER</b>	8082523
<b>ATTENTION</b>	Miles Hume	<b>RECEIVED / TEMP REPORTED</b>	2018-08-28 09:48 / 8°C 2018-08-29 16:46
<b>PO NUMBER</b>		<b>COC NUMBER</b>	B36560/61/62
<b>PROJECT</b>	Department of Education 2018 Water Testing Program		
<b>PROJECT INFO</b>	Contract No. C00044694 (Carcross 2.0)		

**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 17025:2005 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.

**Work Order Comments:**

Extra samples received not listed on COC: BS 11 (35), BS12 (36), BS13 (37), BS14 (38), unlabelled bottle (39), and H.W.T. (40)

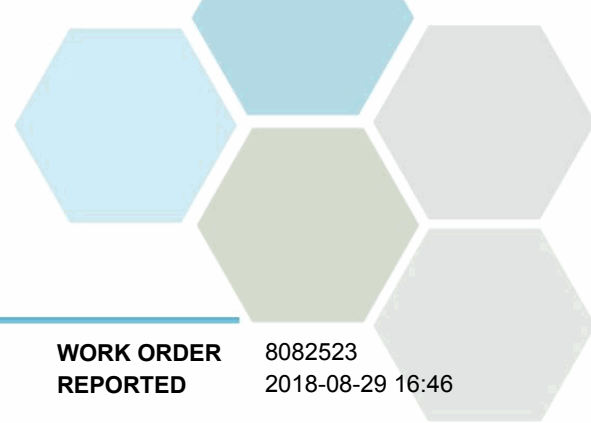
*If you have any questions or concerns, please contact me at [machan@caro.ca](mailto:machan@caro.ca)*

**Authorized By:**

Maggie Chan, DipT  
Client Service Representative

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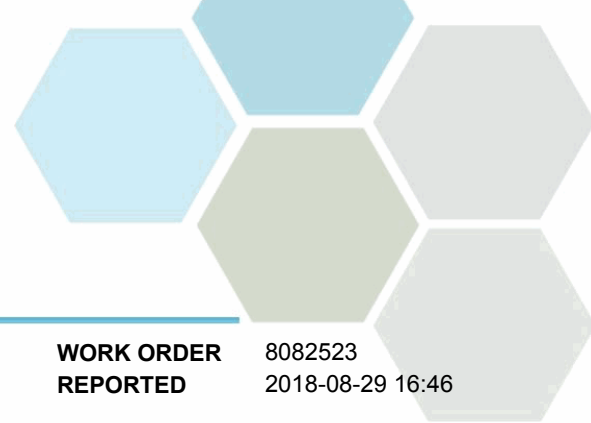


## TEST RESULTS

**REPORTED TO PROJECT** Yukon Government - Department of Education  
Department of Education 2018 Water Testing Program

**WORK ORDER REPORTED** 8082523  
2018-08-29 16:46

Analyte	Result	RL	Units	Analyzed	Qualifier
<b>KS 1 (8082523-01)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	12.2	0.20	µg/L	2018-08-28	
<b>KS 2 (8082523-02)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	21.7	0.20	µg/L	2018-08-28	
<b>KS 3 (8082523-03)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	36.0	0.20	µg/L	2018-08-28	
<b>KS 4 (8082523-04)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	30.0	0.20	µg/L	2018-08-28	
<b>KS 5 (8082523-05)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	22.5	0.20	µg/L	2018-08-28	
<b>CS 5 (8082523-07)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	19.2	0.20	µg/L	2018-08-28	
<b>CS 6 (8082523-08)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	23.3	0.20	µg/L	2018-08-28	
<b>CS 4 (8082523-09)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	14.0	0.20	µg/L	2018-08-28	
<b>DF 1 (8082523-10)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					

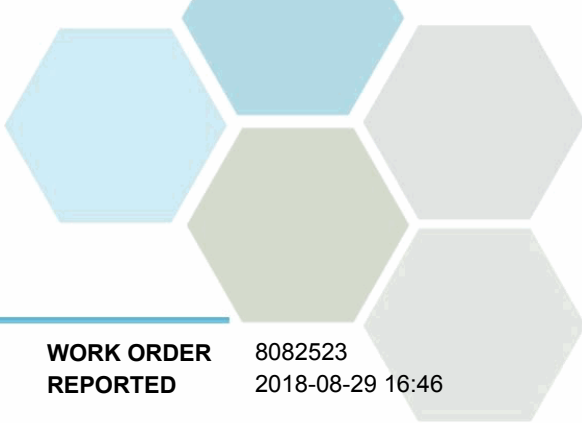


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**WORK ORDER REPORTED** 8082523  
2018-08-29 16:46

Analyte	Result	RL	Units	Analyzed	Qualifier
<b>DF 1 (8082523-10)   Matrix: Water   Sampled: 2018-08-27 10:30, Continued</b>					
<i>Total Metals, Continued</i>					
Lead, total	10.5	0.20	µg/L	2018-08-28	
<b>CS 3 (8082523-11)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	9.30	0.20	µg/L	2018-08-28	
<b>CS 2 (8082523-12)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	11.0	0.20	µg/L	2018-08-28	
<b>BS 5 (8082523-13)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	15.2	0.20	µg/L	2018-08-28	
<b>BS 1 (8082523-14)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	50.5	0.20	µg/L	2018-08-28	
<b>BS 2 (8082523-15)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	27.0	0.20	µg/L	2018-08-28	
<b>BS 3 (8082523-16)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	13.0	0.20	µg/L	2018-08-28	
<b>BS 4 (8082523-17)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	239	0.20	µg/L	2018-08-28	
<b>CS 1 (8082523-18)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					

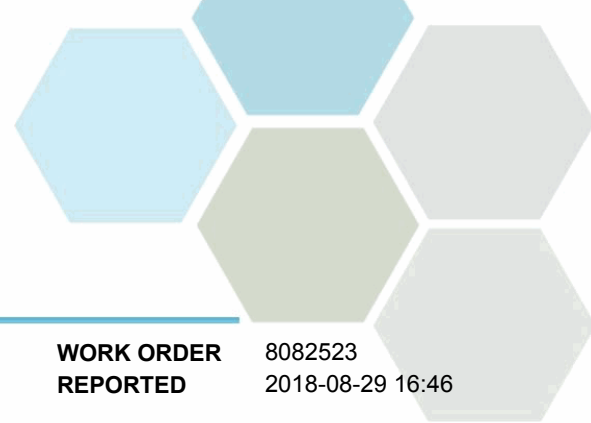


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Analyte	Result	RL	Units	Analyzed	Qualifier
<b>CS 1 (8082523-18)   Matrix: Water   Sampled: 2018-08-27 10:30, Continued</b>					
<i>Total Metals, Continued</i>					
Lead, total	4.59	0.20	µg/L	2018-08-28	
<b>BS 4 - Tier 2 (8082523-19)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	12.3	0.20	µg/L	2018-08-28	
<b>CS 2 - Tier 2 (8082523-20)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	3.64	0.20	µg/L	2018-08-28	
<b>CS 6 - Tier 2 (8082523-21)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	2.55	0.20	µg/L	2018-08-28	
<b>KS 2 - Tier 2 (8082523-22)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	5.00	0.20	µg/L	2018-08-28	
<b>CS 7 (8082523-23)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	16.8	0.20	µg/L	2018-08-28	
<b>BS 7 (8082523-24)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	19.1	0.20	µg/L	2018-08-28	
<b>DF 2 (8082523-25)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	30.2	0.20	µg/L	2018-08-28	
<b>BS 8 (8082523-26)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					

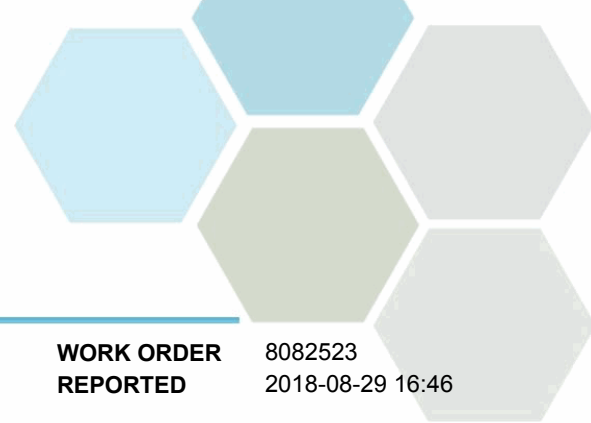


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2018-08-29 16:46

Analyte	Result	RL	Units	Analyzed	Qualifier
<b>BS 8 (8082523-26)   Matrix: Water   Sampled: 2018-08-27 10:30, Continued</b>					
<i>Total Metals, Continued</i>					
Lead, total	32.6	0.20	µg/L	2018-08-29	
<b>BS 9 (8082523-27)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	24.2	0.20	µg/L	2018-08-29	
<b>BS 10 (8082523-28)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	20.0	0.20	µg/L	2018-08-29	
<b>BS 15 (8082523-29)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	14.8	0.20	µg/L	2018-08-29	
<b>DF 3 (8082523-30)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	15.8	0.20	µg/L	2018-08-29	
<b>DF 3 - Tier 2 (8082523-31)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	6.15	0.20	µg/L	2018-08-29	
<b>DF 2 - Tier 2 (8082523-32)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	3.01	0.20	µg/L	2018-08-29	
<b>DF 1 - Tier 2 (8082523-33)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	5.40	0.20	µg/L	2018-08-29	
<b>Carcross (8082523-34)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Anions</i>					



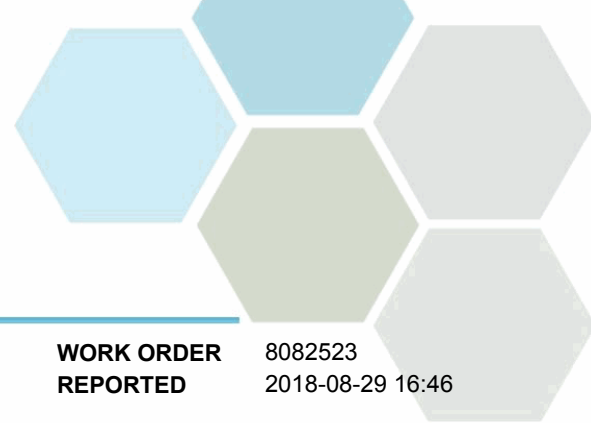
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Analyte	Result	RL	Units	Analyzed	Qualifier
<b>Carcross (8082523-34)   Matrix: Water   Sampled: 2018-08-27 10:30, Continued</b>					
<i>Anions, Continued</i>					
Chloride	13.6	0.10	mg/L	2018-08-29	
Fluoride	0.46	0.10	mg/L	2018-08-29	
Nitrate (as N)	0.073	0.010	mg/L	2018-08-29	
Nitrite (as N)	< 0.010	0.010	mg/L	2018-08-29	
Sulfate	7.3	1.0	mg/L	2018-08-29	
<i>General Parameters</i>					
Alkalinity, Total (as CaCO <sub>3</sub> )	31.2	1.0	mg/L	2018-08-29	
Alkalinity, Phenolphthalein (as CaCO <sub>3</sub> )	< 1.0	1.0	mg/L	2018-08-29	
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	31.2	1.0	mg/L	2018-08-29	
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	< 1.0	1.0	mg/L	2018-08-29	
Alkalinity, Hydroxide (as CaCO <sub>3</sub> )	< 1.0	1.0	mg/L	2018-08-29	
Colour, True	< 5.0	5.0	CU	2018-08-29	
Conductivity (EC)	85.1	2.0	µS/cm	2018-08-28	
pH	7.48	0.10	pH units	2018-08-29	HT2
Turbidity	0.56	0.10	NTU	2018-08-28	
<i>Calculated Parameters</i>					
Hardness, Total (as CaCO <sub>3</sub> )	30.1	0.500	mg/L	N/A	
Solids, Total Dissolved	55	10	mg/L	2018-08-29	
<i>Total Metals</i>					
Aluminum, total	13.1	5.0	µg/L	2018-08-28	
Antimony, total	0.26	0.20	µg/L	2018-08-28	
Arsenic, total	< 0.50	0.50	µg/L	2018-08-28	
Barium, total	15.5	5.0	µg/L	2018-08-28	
Boron, total	7.2	5.0	µg/L	2018-08-28	
Cadmium, total	0.015	0.010	µg/L	2018-08-28	
Calcium, total	9910	200	µg/L	2018-08-28	
Chromium, total	< 0.50	0.50	µg/L	2018-08-28	
Copper, total	49.5	0.40	µg/L	2018-08-28	
Iron, total	47	10	µg/L	2018-08-28	
Lead, total	0.35	0.20	µg/L	2018-08-28	
Magnesium, total	1290	10	µg/L	2018-08-28	
Manganese, total	0.90	0.20	µg/L	2018-08-28	
Mercury, total	< 0.010	0.010	µg/L	2018-08-29	
Potassium, total	440	100	µg/L	2018-08-28	
Selenium, total	< 0.50	0.50	µg/L	2018-08-28	
Sodium, total	2660	100	µg/L	2018-08-28	
Uranium, total	1.08	0.020	µg/L	2018-08-28	
Zinc, total	17.9	4.0	µg/L	2018-08-28	

**BS 11 (8082523-35) | Matrix: Water | Sampled: 2018-08-27 10:30**

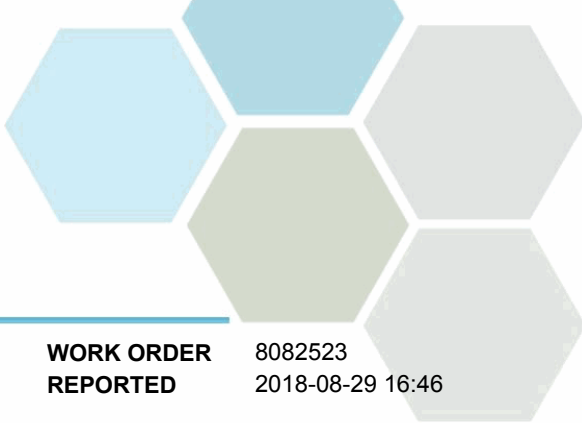


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2018-08-29 16:46

Analyte	Result	RL	Units	Analyzed	Qualifier
<b>BS 11 (8082523-35)   Matrix: Water   Sampled: 2018-08-27 10:30, Continued</b>					
<i>Total Metals</i>					
Lead, total	17.3	0.20	µg/L	2018-08-29	
<b>BS 12 (8082523-36)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	18.3	0.20	µg/L	2018-08-29	
<b>BS 13 (8082523-37)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	17.1	0.20	µg/L	2018-08-29	
<b>BS 14 (8082523-38)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	15.5	0.20	µg/L	2018-08-29	
<b>Unlabelled Sample (8082523-39)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Total Metals</i>					
Lead, total	36.5	0.20	µg/L	2018-08-29	
<b>H.W.T (8082523-40)   Matrix: Water   Sampled: 2018-08-27 10:30</b>					
<i>Anions</i>					
Chloride	7.37	0.10	mg/L	2018-08-29	
Fluoride	0.38	0.10	mg/L	2018-08-29	
Nitrate (as N)	0.056	0.010	mg/L	2018-08-29	
Nitrite (as N)	< 0.010	0.010	mg/L	2018-08-29	
Sulfate	8.1	1.0	mg/L	2018-08-29	
<i>General Parameters</i>					
Alkalinity, Total (as CaCO3)	31.5	1.0	mg/L	2018-08-29	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0	mg/L	2018-08-29	
Alkalinity, Bicarbonate (as CaCO3)	31.5	1.0	mg/L	2018-08-29	
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0	mg/L	2018-08-29	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L	2018-08-29	
Colour, True	< 5.0	5.0	CU	2018-08-29	
Conductivity (EC)	89.6	2.0	µS/cm	2018-08-28	
pH	7.78	0.10	pH units	2018-08-29	HT2
Turbidity	3.18	0.10	NTU	2018-08-28	



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Analyte	Result	RL	Units	Analyzed	Qualifier
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**H.W.T (8082523-40) | Matrix: Water | Sampled: 2018-08-27 10:30, Continued**

**Calculated Parameters**

Hardness, Total (as CaCO3)	31.6	0.500	mg/L	N/A	
Solids, Total Dissolved	50	10	mg/L	2018-08-29	

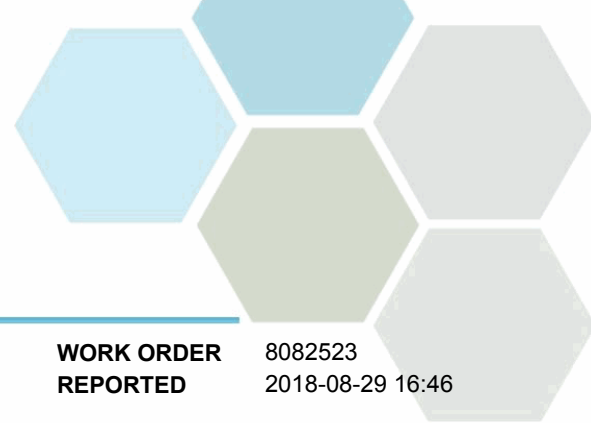
**Total Metals**

Aluminum, total	17.5	5.0	µg/L	2018-08-28	
Antimony, total	< 0.20	0.20	µg/L	2018-08-28	
Arsenic, total	< 0.50	0.50	µg/L	2018-08-28	
Barium, total	17.7	5.0	µg/L	2018-08-28	
Boron, total	34.0	5.0	µg/L	2018-08-28	
Cadmium, total	0.012	0.010	µg/L	2018-08-28	
Calcium, total	10200	200	µg/L	2018-08-28	
Chromium, total	< 0.50	0.50	µg/L	2018-08-28	
Copper, total	101	0.40	µg/L	2018-08-28	
Iron, total	229	10	µg/L	2018-08-28	
Lead, total	3.05	0.20	µg/L	2018-08-28	
Magnesium, total	1500	10	µg/L	2018-08-28	
Manganese, total	9.67	0.20	µg/L	2018-08-28	
Mercury, total	< 0.010	0.010	µg/L	2018-08-29	
Potassium, total	460	100	µg/L	2018-08-28	
Selenium, total	< 0.50	0.50	µg/L	2018-08-28	
Sodium, total	2770	100	µg/L	2018-08-28	
Uranium, total	0.912	0.020	µg/L	2018-08-28	
Zinc, total	14.8	4.0	µg/L	2018-08-28	

**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 PROJECT** Yukon Government - Department of Education  
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Analysis Description	Method Ref.	Technique	Location
Alkalinity in Water	SM 2320 B* (2011)	Titration with H2SO4	Kelowna
Anions in Water	SM 4110 B (2011)	Ion Chromatography	Kelowna
Colour, True in Water	SM 2120 C (2011)	Spectrophotometry (456 nm)	Kelowna
Conductivity in Water	SM 2510 B (2011)	Conductivity Meter	Richmond
Hardness in Water	SM 2340 B* (2011)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
pH in Water	SM 4500-H+ B (2011)	Electrometry	Richmond
Solids, Total Dissolved in Water	SM 1030 E (2011)	Calculation: $100 \times \frac{([\text{Cations}] - [\text{Anions}])}{([\text{Cations}] + [\text{Anions}])}$	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 (2011)	Nephelometry	Richmond

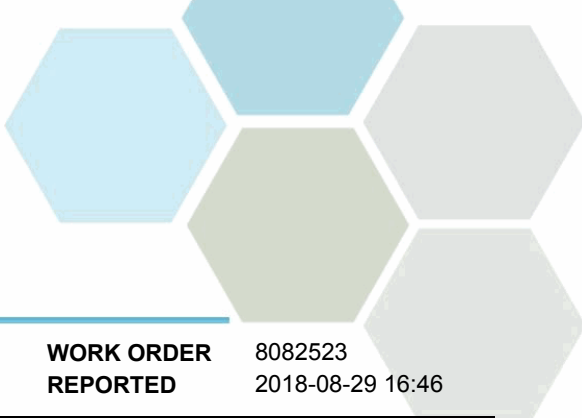
*Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method*

### 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
CU	Colour Units (referenced against a platinum cobalt standard)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
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

### 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 unless otherwise agreed to in writing.



## APPENDIX 2: QUALITY CONTROL RESULTS

**REPORTED TO PROJECT** Yukon Government - Department of Education  
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The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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### Anions, Batch B8H2230

Blank (B8H2230-BLK1)			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							

LCS (B8H2230-BS1)			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Chloride	15.7	0.10 mg/L	16.0		98	90-110			
Fluoride	3.94	0.10 mg/L	4.00		98	88-108			
Nitrate (as N)	3.94	0.010 mg/L	4.00		99	93-108			
Nitrite (as N)	1.91	0.010 mg/L	2.00		96	85-114			
Sulfate	16.2	1.0 mg/L	16.0		101	91-109			

### General Parameters, Batch B8H2242

Blank (B8H2242-BLK1)			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Conductivity (EC)	< 2.0	2.0 µS/cm							

LCS (B8H2242-BS1)			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Conductivity (EC)	148	2.0 µS/cm	147		101	90-110			

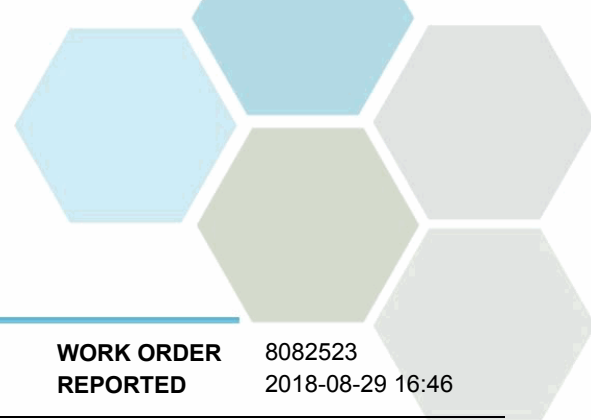
Reference (B8H2242-SRM1)			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Conductivity (EC)	1010	2.0 µS/cm	1000		101	95-105			

### General Parameters, Batch B8H2243

Blank (B8H2243-BLK1)			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Turbidity	< 0.10	0.10 NTU							

Duplicate (B8H2243-DUP1)			Source: 8082523-34 Prepared: 2018-08-28, Analyzed: 2018-08-28						
Turbidity	0.54	0.10 NTU	0.56				4	18	

### General Parameters, Batch B8H2266



## APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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### General Parameters, Batch B8H2266, Continued

<b>Blank (B8H2266-BLK1)</b>			Prepared: 2018-08-29, Analyzed: 2018-08-29						
Colour, True	< 5.0	5.0 CU							
<b>LCS (B8H2266-BS1)</b>			Prepared: 2018-08-29, Analyzed: 2018-08-29						
Colour, True	10	5.0 CU	10.0	100	85-115				

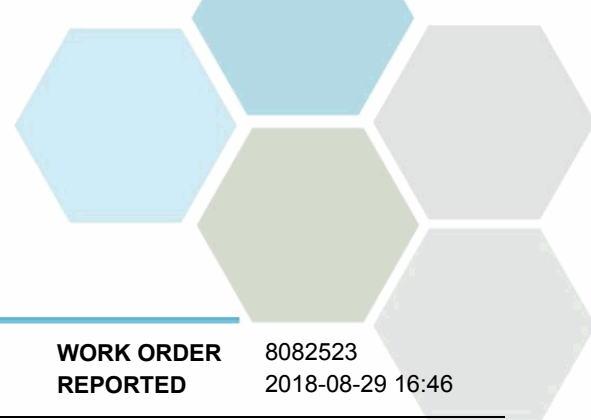
### General Parameters, Batch B8H2322

#### Total Metals, Batch B8H2190

<b>Blank (B8H2190-BLK1)</b>			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Lead, total	< 0.20	0.20 µg/L							
<b>Blank (B8H2190-BLK2)</b>			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Lead, total	< 0.20	0.20 µg/L							
<b>LCS (B8H2190-BS1)</b>			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Lead, total	23.3	0.20 µg/L	20.0	116	80-120				
<b>LCS (B8H2190-BS2)</b>			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Lead, total	22.7	0.20 µg/L	20.0	113	80-120				
<b>Duplicate (B8H2190-DUP1)</b>			<b>Source: 8082523-01</b>		Prepared: 2018-08-28, Analyzed: 2018-08-28				
Lead, total	11.9	0.20 µg/L	12.2	2	20				
<b>Duplicate (B8H2190-DUP2)</b>			<b>Source: 8082523-39</b>		Prepared: 2018-08-28, Analyzed: 2018-08-28				
Lead, total	36.7	0.20 µg/L	36.5	< 1	20				
<b>Reference (B8H2190-SRM1)</b>			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Lead, total	196	0.20 µg/L	204	96	90-110				
<b>Reference (B8H2190-SRM2)</b>			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Lead, total	206	0.20 µg/L	204	101	90-110				

#### Total Metals, Batch B8H2192

<b>Blank (B8H2192-BLK1)</b>			Prepared: 2018-08-28, Analyzed: 2018-08-28						
Aluminum, total	< 5.0	5.0 µg/L							
Antimony, total	< 0.20	0.20 µg/L							
Arsenic, total	< 0.50	0.50 µg/L							
Barium, total	< 5.0	5.0 µg/L							
Boron, total	< 5.0	5.0 µg/L							
Cadmium, total	< 0.010	0.010 µg/L							
Calcium, total	< 200	200 µg/L							
Chromium, total	< 0.50	0.50 µg/L							
Copper, total	< 0.40	0.40 µg/L							
Iron, total	< 10	10 µg/L							
Lead, total	< 0.20	0.20 µg/L							
Magnesium, total	< 10	10 µg/L							
Manganese, total	< 0.20	0.20 µg/L							
Potassium, total	< 100	100 µg/L							
Selenium, total	< 0.50	0.50 µg/L							
Sodium, total	< 100	100 µg/L							
Uranium, total	< 0.020	0.020 µg/L							
Zinc, total	< 4.0	4.0 µg/L							

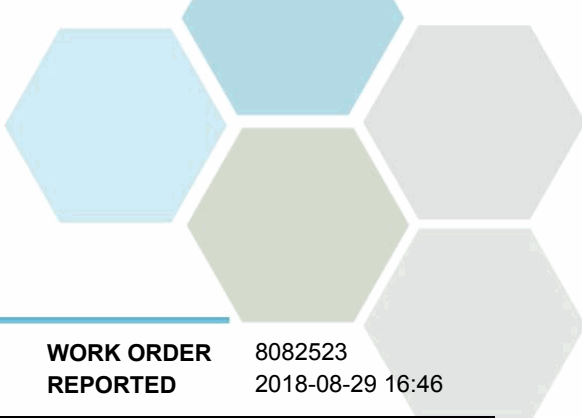


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Department of Education 2018 Water Testing Program

**WORK ORDER REPORTED** 8082523  
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Total Metals, Batch B8H2192, Continued</b>									
<b>LCS (B8H2192-BS1)</b>				Prepared: 2018-08-28, Analyzed: 2018-08-28					
Aluminum, total	22.1	5.0 µg/L	20.0		111	80-120			
Antimony, total	20.5	0.20 µg/L	20.0		102	80-120			
Arsenic, total	20.1	0.50 µg/L	20.0		100	80-120			
Barium, total	19.7	5.0 µg/L	20.0		98	80-120			
Boron, total	23.3	5.0 µg/L	20.0		116	80-120			
Cadmium, total	20.3	0.010 µg/L	20.0		101	80-120			
Calcium, total	1990	200 µg/L	2000		100	80-120			
Chromium, total	21.6	0.50 µg/L	20.0		108	80-120			
Copper, total	22.3	0.40 µg/L	20.0		112	80-120			
Iron, total	1990	10 µg/L	2000		99	80-120			
Lead, total	21.6	0.20 µg/L	20.0		108	80-120			
Magnesium, total	2110	10 µg/L	2000		105	80-120			
Manganese, total	19.4	0.20 µg/L	20.0		97	80-120			
Potassium, total	1980	100 µg/L	2000		99	80-120			
Selenium, total	20.9	0.50 µg/L	20.0		104	80-120			
Sodium, total	2150	100 µg/L	2000		108	80-120			
Uranium, total	20.8	0.020 µg/L	20.0		104	80-120			
Zinc, total	21.9	4.0 µg/L	20.0		110	80-120			
<b>Duplicate (B8H2192-DUP1)</b>				Source: 8082523-34		Prepared: 2018-08-28, Analyzed: 2018-08-28			
Aluminum, total	12.9	5.0 µg/L		13.1					20
Antimony, total	0.34	0.20 µg/L		0.26					20
Arsenic, total	< 0.50	0.50 µg/L		< 0.50					15
Barium, total	16.0	5.0 µg/L		15.5					9
Boron, total	8.7	5.0 µg/L		7.2					20
Cadmium, total	0.013	0.010 µg/L		0.015					20
Calcium, total	10400	200 µg/L		9910			4		12
Chromium, total	< 0.50	0.50 µg/L		< 0.50					12
Copper, total	50.2	0.40 µg/L		49.5			2		20
Iron, total	49	10 µg/L		47					18
Lead, total	0.36	0.20 µg/L		0.35					20
Magnesium, total	1330	10 µg/L		1290			3		10
Manganese, total	1.02	0.20 µg/L		0.90			12		13
Potassium, total	460	100 µg/L		440					13
Selenium, total	< 0.50	0.50 µg/L		< 0.50					20
Sodium, total	2740	100 µg/L		2660			3		10
Uranium, total	1.09	0.020 µg/L		1.08			< 1		14
Zinc, total	18.0	4.0 µg/L		17.9					8
<b>Reference (B8H2192-SRM1)</b>				Prepared: 2018-08-28, Analyzed: 2018-08-28					
Aluminum, total	294	5.0 µg/L		303			97		82-114
Antimony, total	50.3	0.20 µg/L		51.1			98		88-115
Arsenic, total	118	0.50 µg/L		118			100		88-111
Barium, total	759	5.0 µg/L		823			92		83-110
Boron, total	3590	5.0 µg/L		3450			104		80-118
Cadmium, total	48.4	0.010 µg/L		49.5			98		90-110
Calcium, total	11000	200 µg/L		11600			95		85-113
Chromium, total	268	0.50 µg/L		250			107		88-111
Copper, total	540	0.40 µg/L		486			111		90-117
Iron, total	484	10 µg/L		488			99		90-116
Lead, total	219	0.20 µg/L		204			107		90-110
Magnesium, total	3850	10 µg/L		3790			102		88-116
Manganese, total	101	0.20 µg/L		109			93		88-108
Potassium, total	7220	100 µg/L		7210			100		87-116
Selenium, total	124	0.50 µg/L		121			103		90-122
Sodium, total	7700	100 µg/L		7540			102		86-118



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Total Metals, Batch B8H2192, Continued</b>									
<b>Reference (B8H2192-SRM1), Continued</b>					Prepared: 2018-08-28, Analyzed: 2018-08-28				
Uranium, total	31.8	0.020 µg/L	30.6		104	88-112			
Zinc, total	2480	4.0 µg/L	2490		99	90-113			

### Total Metals, Batch B8H2197

<b>Blank (B8H2197-BLK1)</b>					Prepared: 2018-08-28, Analyzed: 2018-08-29				
Mercury, total	< 0.010	0.010 µg/L							
<b>Blank (B8H2197-BLK2)</b>					Prepared: 2018-08-28, Analyzed: 2018-08-29				
Mercury, total	< 0.010	0.010 µg/L							
<b>Reference (B8H2197-SRM1)</b>					Prepared: 2018-08-28, Analyzed: 2018-08-29				
Mercury, total	4.35	0.010 µg/L	4.89		89	80-120			
<b>Reference (B8H2197-SRM2)</b>					Prepared: 2018-08-28, Analyzed: 2018-08-29				
Mercury, total	4.05	0.010 µg/L	4.89		83	80-120			