



## CERTIFICATE OF ANALYSIS

<b>REPORTED TO</b>	Yukon Government - Department of Education 1000 Lewes Blvd. Whitehorse, YT Y1A 6N2	<b>WORK ORDER</b>	8090659
<b>ATTENTION</b>	Miles Hume	<b>RECEIVED / TEMP REPORTED</b>	2018-09-06 10:05 / 6°C 2018-09-14 10:36
<b>PO NUMBER</b>		<b>COC NUMBER</b>	B36563/64/65
<b>PROJECT</b>	Department of Education 2018 Water Testing Program		
<b>PROJECT INFO</b>	Contract No. C00044694 (Johnson Elementary)		

### 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.

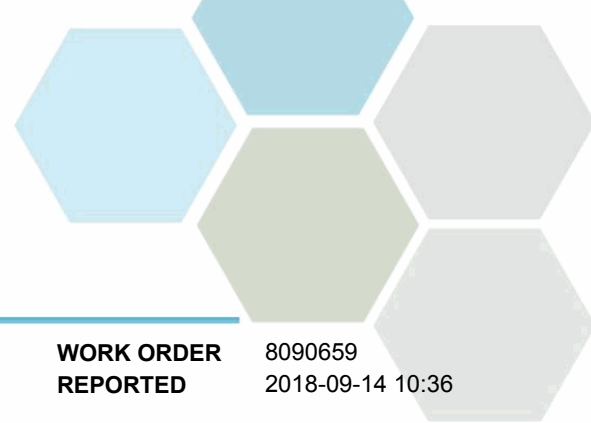
If you have any questions or concerns, please contact me at [machan@caro.ca](mailto:machan@caro.ca)

### Authorized By:

Maggie Chan, DipT  
Client Service Representative

1-888-311-8846 | [www.caro.ca](http://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

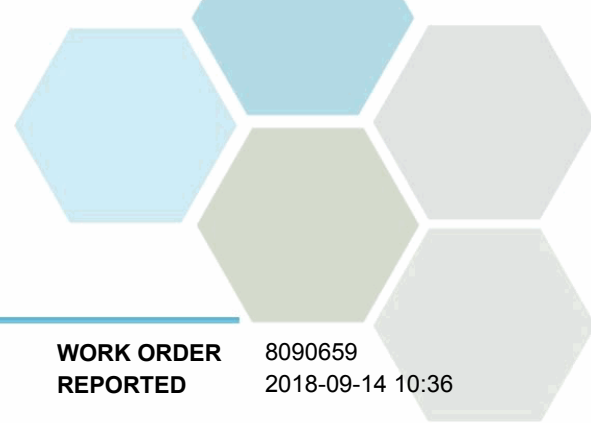


## TEST RESULTS

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

**WORK ORDER REPORTED** 8090659  
2018-09-14 10:36

Analyte	Result	RL	Units	Analyzed	Qualifier
<b>#1 Dental Office (8090659-01)   Matrix: Water   Sampled: 2018-09-02 10:20</b>					
<i>Total Metals</i>					
Lead, total	3.05	0.20	µg/L	2018-09-12	
<b>#2 Dental Washroom (8090659-02)   Matrix: Water   Sampled: 2018-09-02 10:25</b>					
<i>Total Metals</i>					
Lead, total	2.43	0.20	µg/L	2018-09-12	
<b>#3 Medical Room (8090659-03)   Matrix: Water   Sampled: 2018-09-02 10:32</b>					
<i>Total Metals</i>					
Lead, total	0.96	0.20	µg/L	2018-09-12	
<b>#4 Staff Room (8090659-04)   Matrix: Water   Sampled: 2018-09-02 10:37</b>					
<i>Total Metals</i>					
Lead, total	3.57	0.20	µg/L	2018-09-12	
<b>#5 Staff Lounge (8090659-05)   Matrix: Water   Sampled: 2018-09-02 10:39</b>					
<i>Total Metals</i>					
Lead, total	0.53	0.20	µg/L	2018-09-12	
<b>#6 Staff Lounge (8090659-06)   Matrix: Water   Sampled: 2018-09-02 10:40</b>					
<i>Total Metals</i>					
Lead, total	9.70	0.20	µg/L	2018-09-12	
<b>#7a Boy's Washroom (8090659-07)   Matrix: Water   Sampled: 2018-09-02 10:45</b>					
<i>Total Metals</i>					
Lead, total	1.80	0.20	µg/L	2018-09-12	
<b>#7b Boy's Washroom (8090659-08)   Matrix: Water   Sampled: 2018-09-02 10:50</b>					
<i>Total Metals</i>					
Lead, total	3.30	0.20	µg/L	2018-09-12	
<b>#8a Girl's Washroom (8090659-09)   Matrix: Water   Sampled: 2018-09-02 10:49</b>					
<i>Total Metals</i>					

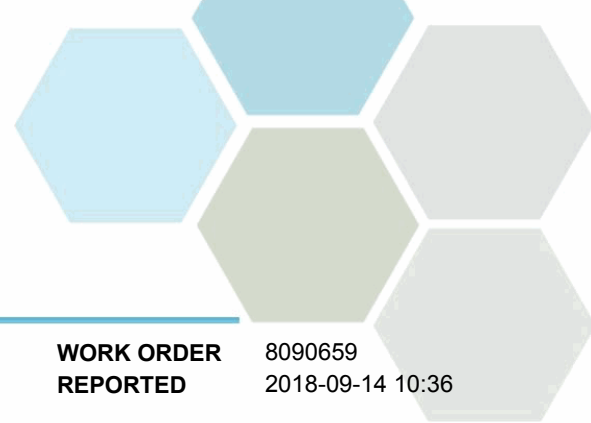


## TEST RESULTS

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

**WORK ORDER REPORTED** 8090659  
2018-09-14 10:36

Analyte	Result	RL	Units	Analyzed	Qualifier
<b>#8a Girl's Washroom (8090659-09)   Matrix: Water   Sampled: 2018-09-02 10:49, Continued</b>					
<i>Total Metals, Continued</i>					
Lead, total	2.50	0.20	µg/L	2018-09-12	
<b>#8b Girl's Washroom (8090659-10)   Matrix: Water   Sampled: 2018-09-02 10:49</b>					
<i>Total Metals</i>					
Lead, total	0.53	0.20	µg/L	2018-09-12	
<b>#9 Shower Room (8090659-11)   Matrix: Water   Sampled: 2018-09-02 10:49</b>					
<i>Total Metals</i>					
Lead, total	5.71	0.20	µg/L	2018-09-12	
<b>#10 Janitor (8090659-12)   Matrix: Water   Sampled: 2018-09-02 10:59</b>					
<i>Total Metals</i>					
Lead, total	5.21	0.20	µg/L	2018-09-12	
<b>#11a Boys Washroom (8090659-13)   Matrix: Water   Sampled: 2018-09-02 11:03</b>					
<i>Total Metals</i>					
Lead, total	0.62	0.20	µg/L	2018-09-12	
<b>#11b Boys Washroom (8090659-14)   Matrix: Water   Sampled: 2018-09-02 11:10</b>					
<i>Total Metals</i>					
Lead, total	0.47	0.20	µg/L	2018-09-12	
<b>#11c Boys Washroom (8090659-15)   Matrix: Water   Sampled: 2018-09-02 11:12</b>					
<i>Total Metals</i>					
Lead, total	0.45	0.20	µg/L	2018-09-12	
<b>#11d Boys Washroom (8090659-16)   Matrix: Water   Sampled: 2018-09-02 11:14</b>					
<i>Total Metals</i>					
Lead, total	0.86	0.20	µg/L	2018-09-12	
<b>#12a Girls Washroom (8090659-17)   Matrix: Water   Sampled: 2018-09-02 11:13</b>					
<i>Total Metals</i>					

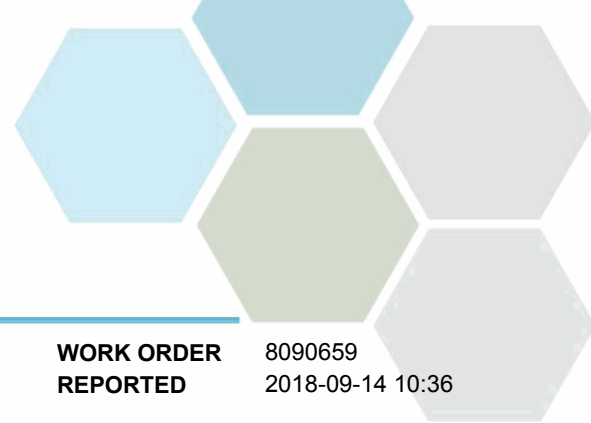


## TEST RESULTS

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

**WORK ORDER REPORTED** 8090659  
2018-09-14 10:36

Analyte	Result	RL	Units	Analyzed	Qualifier
<b>#12a Girls Washroom (8090659-17)   Matrix: Water   Sampled: 2018-09-02 11:13, Continued</b>					
<i>Total Metals, Continued</i>					
Lead, total	0.20	0.20	µg/L	2018-09-12	
<b>#12b Girls Washroom (8090659-18)   Matrix: Water   Sampled: 2018-09-02 11:20</b>					
<i>Total Metals</i>					
Lead, total	0.65	0.20	µg/L	2018-09-12	
<b>#12c Girls Washroom (8090659-19)   Matrix: Water   Sampled: 2018-09-02 11:21</b>					
<i>Total Metals</i>					
Lead, total	0.48	0.20	µg/L	2018-09-12	
<b>#12d Girls Washroom (8090659-20)   Matrix: Water   Sampled: 2018-09-02 11:22</b>					
<i>Total Metals</i>					
Lead, total	1.34	0.20	µg/L	2018-09-12	
<b>#13 Mechanical Room (8090659-21)   Matrix: Water   Sampled: 2018-09-02 11:25</b>					
<i>Total Metals</i>					
Lead, total	2.42	0.20	µg/L	2018-09-12	
<b>#14a Food Room (8090659-22)   Matrix: Water   Sampled: 2018-09-02 11:32</b>					
<i>Total Metals</i>					
Lead, total	1.42	0.20	µg/L	2018-09-12	
<b>#14b Food Room (8090659-23)   Matrix: Water   Sampled: 2018-09-02 11:33</b>					
<i>Total Metals</i>					
Lead, total	12.4	0.20	µg/L	2018-09-12	
<b>#14c Food Room (8090659-24)   Matrix: Water   Sampled: 2018-09-02 11:34</b>					
<i>Total Metals</i>					
Lead, total	4.01	0.20	µg/L	2018-09-12	
<b>#14d Food Room (8090659-25)   Matrix: Water   Sampled: 2018-09-02 11:34</b>					
<i>Total Metals</i>					

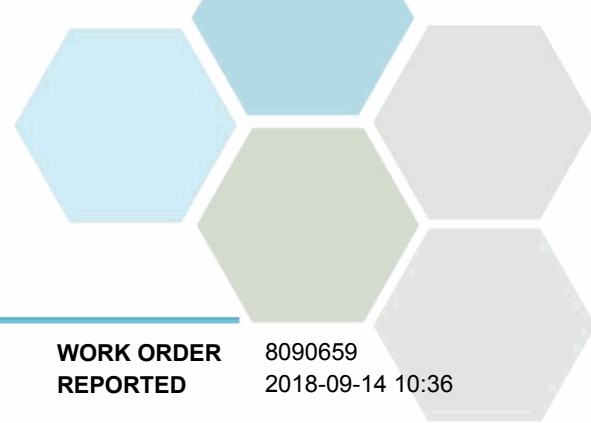


## TEST RESULTS

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

**WORK ORDER REPORTED** 8090659  
2018-09-14 10:36

Analyte	Result	RL	Units	Analyzed	Qualifier
<b>#14d Food Room (8090659-25)   Matrix: Water   Sampled: 2018-09-02 11:34, Continued</b>					
<i>Total Metals, Continued</i>					
Lead, total	2.95	0.20	µg/L	2018-09-12	
<b>#14e Food Room (8090659-26)   Matrix: Water   Sampled: 2018-09-02 11:35</b>					
<i>Total Metals</i>					
Lead, total	2.56	0.20	µg/L	2018-09-12	
<b>#14f Food Room (8090659-27)   Matrix: Water   Sampled: 2018-09-02 11:36</b>					
<i>Total Metals</i>					
Lead, total	140	0.20	µg/L	2018-09-12	
<b>#15a K4 (8090659-28)   Matrix: Water   Sampled: 2018-09-02 11:41</b>					
<i>Total Metals</i>					
Lead, total	2.53	0.20	µg/L	2018-09-12	
<b>#15b K4 Washroom (8090659-29)   Matrix: Water   Sampled: 2018-09-02 11:43</b>					
<i>Total Metals</i>					
Lead, total	7.33	0.20	µg/L	2018-09-12	
<b>#16 10 Special Ed (8090659-30)   Matrix: Water   Sampled: 2018-09-02 11:48</b>					
<i>Total Metals</i>					
Lead, total	0.99	0.20	µg/L	2018-09-12	
<b>#17 Class 9 (8090659-31)   Matrix: Water   Sampled: 2018-09-02 11:51</b>					
<i>Total Metals</i>					
Lead, total	5.91	0.20	µg/L	2018-09-12	
<b>#18a Kindergarden 2 (8090659-32)   Matrix: Water   Sampled: 2018-09-02 11:55</b>					
<i>Total Metals</i>					
Lead, total	1.60	0.20	µg/L	2018-09-12	
<b>#18b Kindergarden 2 Bathroom (8090659-33)   Matrix: Water   Sampled: 2018-09-02 11:56</b>					
<i>Total Metals</i>					

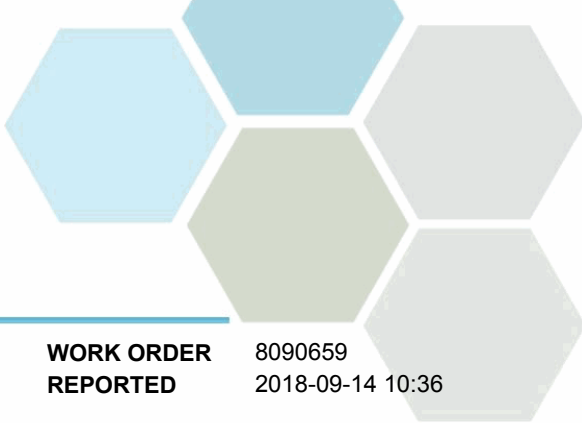


## TEST RESULTS

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

**WORK ORDER REPORTED** 8090659  
2018-09-14 10:36

Analyte	Result	RL	Units	Analyzed	Qualifier
<b>#18b Kindergarten 2 Bathroom (8090659-33)   Matrix: Water   Sampled: 2018-09-02 11:56, Continued</b>					
<i>Total Metals, Continued</i>					
Lead, total	6.84	0.20	µg/L	2018-09-12	
<b>#19 Class 8 (8090659-34)   Matrix: Water   Sampled: 2018-09-02 12:02</b>					
<i>Total Metals</i>					
Lead, total	0.80	0.20	µg/L	2018-09-12	
<b>#20 Class 7 (8090659-35)   Matrix: Water   Sampled: 2018-09-02 12:04</b>					
<i>Total Metals</i>					
Lead, total	4.51	0.20	µg/L	2018-09-12	
<b>#21 Class 6 (8090659-36)   Matrix: Water   Sampled: 2018-09-02 12:07</b>					
<i>Total Metals</i>					
Lead, total	3.83	0.20	µg/L	2018-09-12	
<b>#22 Class 5 (8090659-37)   Matrix: Water   Sampled: 2018-09-02 12:13</b>					
<i>Total Metals</i>					
Lead, total	2.32	0.20	µg/L	2018-09-12	
<b>#23 learning Assist. (8090659-38)   Matrix: Water   Sampled: 2018-09-02 12:14</b>					
<i>Total Metals</i>					
Lead, total	3.90	0.20	µg/L	2018-09-12	
<b>#24 Class 1 (8090659-39)   Matrix: Water   Sampled: 2018-09-02 12:19</b>					
<i>Total Metals</i>					
Lead, total	0.38	0.20	µg/L	2018-09-12	
<b>#25a Kindergarten 1 (8090659-40)   Matrix: Water   Sampled: 2018-09-02 12:24</b>					
<i>Total Metals</i>					
Lead, total	3.14	0.20	µg/L	2018-09-12	
<b>#25b Kindergarten 1 Bathroom (8090659-41)   Matrix: Water   Sampled: 2018-09-02 12:26</b>					
<i>Total Metals</i>					

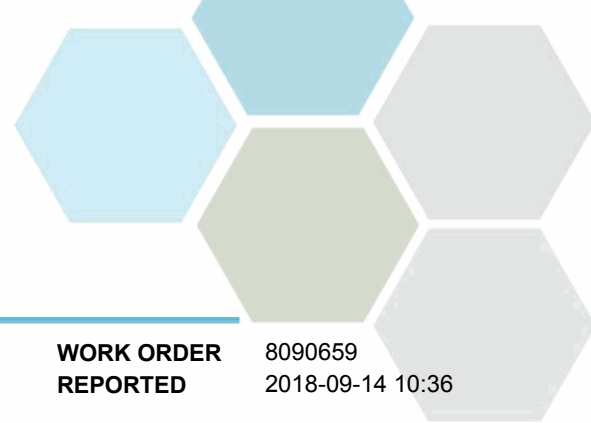


## TEST RESULTS

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

**WORK ORDER REPORTED** 8090659  
2018-09-14 10:36

Analyte	Result	RL	Units	Analyzed	Qualifier
<b>#25b Kindergarten 1 Bathroom (8090659-41)   Matrix: Water   Sampled: 2018-09-02 12:26, Continued</b>					
<i>Total Metals, Continued</i>					
Lead, total	0.47	0.20	µg/L	2018-09-12	
<b>#26a Kindergarten 3 (8090659-42)   Matrix: Water   Sampled: 2018-09-02 12:29</b>					
<i>Total Metals</i>					
Lead, total	2.64	0.20	µg/L	2018-09-12	
<b>#26b Kindergarten 3 Bathroom (8090659-43)   Matrix: Water   Sampled: 2018-09-02 12:30</b>					
<i>Total Metals</i>					
Lead, total	7.98	0.20	µg/L	2018-09-12	
<b>Fountain 1 (8090659-44)   Matrix: Water   Sampled: 2018-09-02 13:33</b>					
<i>Total Metals</i>					
Lead, total	0.50	0.20	µg/L	2018-09-12	
<b>Fountain 2 (8090659-45)   Matrix: Water   Sampled: 2018-09-02 13:36</b>					
<i>Total Metals</i>					
Lead, total	14.1	0.20	µg/L	2018-09-12	
<b>Fountain 3 (8090659-46)   Matrix: Water   Sampled: 2018-09-02 13:35</b>					
<i>Total Metals</i>					
Lead, total	3.42	0.20	µg/L	2018-09-12	
<b>Fountain 4 (8090659-47)   Matrix: Water   Sampled: 2018-09-02 13:34</b>					
<i>Total Metals</i>					
Lead, total	1.27	0.20	µg/L	2018-09-12	
<b>#31 Gym Girls Shower (8090659-48)   Matrix: Water   Sampled: 2018-09-02 13:22</b>					
<i>Total Metals</i>					
Lead, total	0.96	0.20	µg/L	2018-09-12	
<b>#32 Gym Boys Shower (8090659-49)   Matrix: Water   Sampled: 2018-09-02 13:25</b>					
<i>Total Metals</i>					



## TEST RESULTS

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

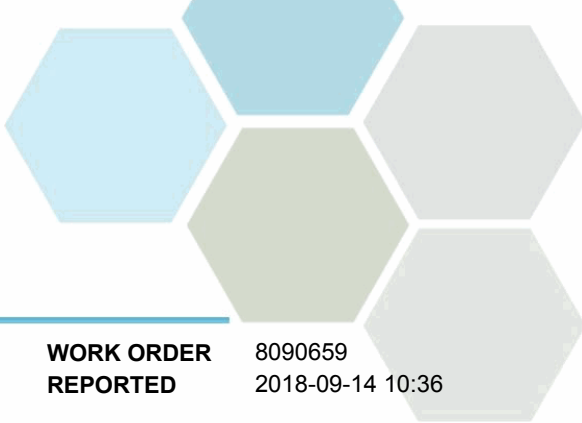
**WORK ORDER REPORTED** 8090659  
2018-09-14 10:36

Analyte	Result	RL	Units	Analyzed	Qualifier
<b>#32 Gym Boys Shower (8090659-49)   Matrix: Water   Sampled: 2018-09-02 13:25, Continued</b>					
<i>Total Metals, Continued</i>					
Lead, total	1.21	0.20	µg/L	2018-09-12	

**#30 Mechanical Room (8090659-50) | Matrix: Water | Sampled: 2018-09-02 13:00**

<i>Calculated Parameters</i>					
Hardness, Total (as CaCO3)	198	0.500	mg/L	N/A	
<i>Total Metals</i>					
Aluminum, total	6.1	5.0	µg/L	2018-09-12	
Antimony, total	< 0.20	0.20	µg/L	2018-09-12	
Arsenic, total	< 0.50	0.50	µg/L	2018-09-12	
Barium, total	254	5.0	µg/L	2018-09-12	
Boron, total	5.8	5.0	µg/L	2018-09-12	
Cadmium, total	0.075	0.010	µg/L	2018-09-12	
Calcium, total	54500	200	µg/L	2018-09-12	
Chromium, total	< 0.50	0.50	µg/L	2018-09-12	
Copper, total	92.7	0.40	µg/L	2018-09-12	
Iron, total	116	10	µg/L	2018-09-12	
Lead, total	1.42	0.20	µg/L	2018-09-12	
Magnesium, total	15100	10	µg/L	2018-09-12	
Manganese, total	6.96	0.20	µg/L	2018-09-12	
Mercury, total	< 0.010	0.010	µg/L	2018-09-11	
Potassium, total	1070	100	µg/L	2018-09-12	
Selenium, total	< 0.50	0.50	µg/L	2018-09-12	
Sodium, total	5570	100	µg/L	2018-09-12	
Uranium, total	0.059	0.020	µg/L	2018-09-12	
Zinc, total	15.1	4.0	µg/L	2018-09-12	





## APPENDIX 1: SUPPORTING INFORMATION

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

**WORK ORDER REPORTED** 8090659  
2018-09-14 10:36

Analysis Description	Method Ref.	Technique	Location
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*	BrCl <sub>2</sub> Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
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

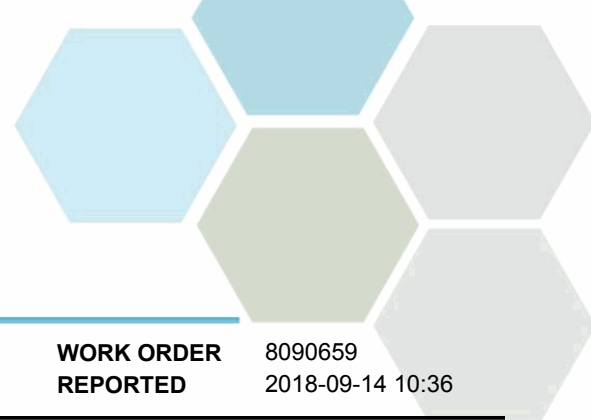
*Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method*

### 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
mg/L	Milligrams per litre
µg/L	Micrograms per litre
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  
Department of Education 2018 Water Testing Program

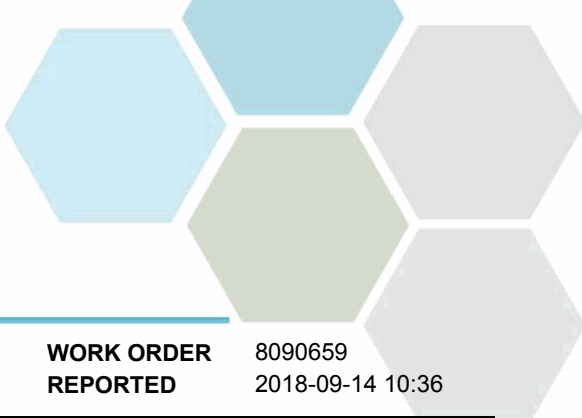
**WORK ORDER REPORTED** 8090659  
2018-09-14 10:36

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
<b>Total Metals, Batch B810597</b>									
<b>Blank (B810597-BLK1)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-11						
Mercury, total	< 0.010	0.010 µg/L							
<b>Blank (B810597-BLK2)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-11						
Mercury, total	< 0.010	0.010 µg/L							
<b>Reference (B810597-SRM1)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-11						
Mercury, total	4.74	0.010 µg/L	4.89		97	80-120			
<b>Reference (B810597-SRM2)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-11						
Mercury, total	4.47	0.010 µg/L	4.89		91	80-120			
<b>Total Metals, Batch B810598</b>									
<b>Blank (B810598-BLK1)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-12						
Lead, total	< 0.20	0.20 µg/L							
<b>Blank (B810598-BLK2)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-12						
Lead, total	< 0.20	0.20 µg/L							
<b>LCS (B810598-BS1)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-12						
Lead, total	20.9	0.20 µg/L	20.0		105	80-120			
<b>LCS (B810598-BS2)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-12						
Lead, total	21.2	0.20 µg/L	20.0		106	80-120			
<b>Duplicate (B810598-DUP1)</b>			Source: 8090659-01 Prepared: 2018-09-11, Analyzed: 2018-09-12						
Lead, total	3.07	0.20 µg/L		3.05			< 1	20	
<b>Duplicate (B810598-DUP2)</b>			Source: 8090659-40 Prepared: 2018-09-11, Analyzed: 2018-09-12						
Lead, total	3.19	0.20 µg/L		3.14			1	20	
<b>Reference (B810598-SRM1)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-12						
Lead, total	205	0.20 µg/L	204		101	90-110			
<b>Reference (B810598-SRM2)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-12						
Lead, total	205	0.20 µg/L	204		101	90-110			

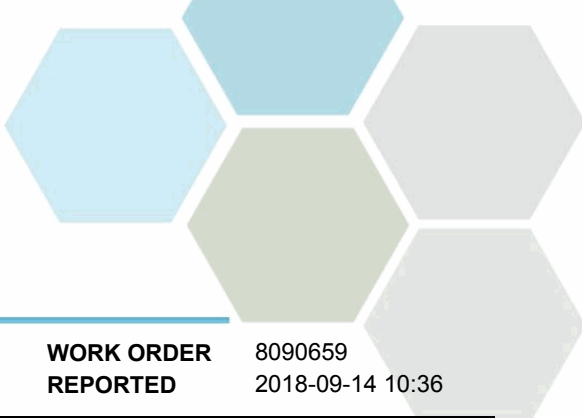


## APPENDIX 2: QUALITY CONTROL RESULTS

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

**WORK ORDER REPORTED** 8090659  
2018-09-14 10:36

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Total Metals, Batch B810599</b>									
<b>Blank (B810599-BLK1)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-12						
Lead, total	< 0.20	0.20 µg/L							
<b>LCS (B810599-BS1)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-12						
Lead, total	21.5	0.20 µg/L	20.0		107	80-120			
<b>Duplicate (B810599-DUP1)</b>			<b>Source: 8090659-41</b>		Prepared: 2018-09-11, Analyzed: 2018-09-12				
Lead, total	0.51	0.20 µg/L		0.47				20	
<b>Reference (B810599-SRM1)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-12						
Lead, total	213	0.20 µg/L	204		104	90-110			
<b>Total Metals, Batch B810629</b>									
<b>Blank (B810629-BLK1)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-12						
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							
<b>LCS (B810629-BS1)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-12						
Aluminum, total	23.3	5.0 µg/L	20.0		116	80-120			
Antimony, total	20.2	0.20 µg/L	20.0		101	80-120			
Arsenic, total	19.9	0.50 µg/L	20.0		100	80-120			
Barium, total	20.3	5.0 µg/L	20.0		101	80-120			
Boron, total	19.9	5.0 µg/L	20.0		99	80-120			
Cadmium, total	20.5	0.010 µg/L	20.0		102	80-120			
Calcium, total	2150	200 µg/L	2000		107	80-120			
Chromium, total	19.5	0.50 µg/L	20.0		98	80-120			
Copper, total	21.0	0.40 µg/L	20.0		105	80-120			
Iron, total	2030	10 µg/L	2000		101	80-120			
Lead, total	21.0	0.20 µg/L	20.0		105	80-120			
Magnesium, total	2080	10 µg/L	2000		104	80-120			
Manganese, total	19.8	0.20 µg/L	20.0		99	80-120			
Potassium, total	1970	100 µg/L	2000		98	80-120			
Selenium, total	21.2	0.50 µg/L	20.0		106	80-120			
Sodium, total	2080	100 µg/L	2000		104	80-120			
Uranium, total	21.1	0.020 µg/L	20.0		105	80-120			
Zinc, total	23.3	4.0 µg/L	20.0		117	80-120			
<b>Reference (B810629-SRM1)</b>			Prepared: 2018-09-11, Analyzed: 2018-09-12						
Aluminum, total	316	5.0 µg/L	303		104	82-114			



## APPENDIX 2: QUALITY CONTROL RESULTS

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

**WORK ORDER REPORTED** 8090659  
2018-09-14 10:36

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Total Metals, Batch B8I0629, Continued</b>									
<b>Reference (B8I0629-SRM1), Continued</b>					Prepared: 2018-09-11, Analyzed: 2018-09-12				
Antimony, total	50.1	0.20 µg/L	51.1		98	88-115			
Arsenic, total	118	0.50 µg/L	118		100	88-111			
Barium, total	791	5.0 µg/L	823		96	83-110			
Boron, total	3120	5.0 µg/L	3450		90	80-118			
Cadmium, total	49.3	0.010 µg/L	49.5		100	90-110			
Calcium, total	10500	200 µg/L	11600		90	85-113			
Chromium, total	243	0.50 µg/L	250		97	88-111			
Copper, total	505	0.40 µg/L	486		104	90-117			
Iron, total	508	10 µg/L	488		104	90-116			
Lead, total	203	0.20 µg/L	204		99	90-110			
Magnesium, total	3910	10 µg/L	3790		103	88-116			
Manganese, total	105	0.20 µg/L	109		97	88-108			
Potassium, total	7300	100 µg/L	7210		101	87-116			
Selenium, total	127	0.50 µg/L	121		105	90-122			
Sodium, total	7580	100 µg/L	7540		101	86-118			
Uranium, total	30.7	0.020 µg/L	30.6		100	88-112			
Zinc, total	2620	4.0 µg/L	2490		105	90-113			