

From: Coulter, Dudley <Dudley.Coulter@bchydro.com>
Sent: Monday, October 5, 2026 10:40 AM
To: Derek Kwiatkowski <cao@salmo.ca>
Subject: Sheep Creek Nutrient Addition Program Update

DATE Oct. 5/26
NO 48 TO M+C - Oct. 13/26
FILE NO 0510-20
VILLAGE OF SALMO

Hi Derek,

I hope you're doing well. I wanted to provide a brief update about the Sheep Creek Nutrient Addition Program that can be shared with Mayor and Council as we prepare to resume operations in Spring 2027.

We have held two in-person community meetings in 2026 and attended a creek tour hosted by the residents. In summary, we made progress on many of the concerns we heard throughout the summer:

1. **Water quality:** Additional water quality testing was performed in July concluding that the water in Sheep Creek continues to meet all Canadian guidelines for drinking water. I have attached the results for your convenience.
2. **Wildlife habitat:** The discussed beaver habitat is not connected to Sheep Creek and added nutrients are not entering this area. During the July site visit, we witnessed several bird species (osprey, kingfisher, dippers, and more) that are using the creek which is an indication of a healthy ecosystem.
3. **Inadequate community engagement:** Since our June meeting, we toured the creek with Vince, held a second community meeting, and have two community meetings planned for 2027. I will continue to respond to emails and phone calls. We also plan to develop signage for the area that will explain the program and include contact information. In addition, some residents will be occasionally working with the program in a stewardship capacity.
4. **Public safety:** We will be increasing public safety by installing a secure seacan container equipped with fencing and security monitoring. In addition, we plan to engage a local school group or artist to paint the container.
5. **Program contractors:** The program will be led by Flatblow Culture Society (Ktunaxa business from the Lower Kootenay Band) and closely monitored by BC Hydro going forward.

To address concerns about excessive **algae blooms**, we will closely monitor nutrient dosing in 2027 and adjust to find the lowest-effective dose to both meet the program intent and resident uses of the water.

What's next:

The seacan container will be delivered to the dispensing site on or after October 13. However, dispensing won't begin until Spring 2027.

There will be two advertised community meetings in 2027: in the spring to reintroduce the program and answer questions and; in September to present the results of our close monitoring of the program.

In the meantime, I continue to be available to answer questions from residents about the program. If Mayor and Council would also like an update on the program and our engagement over the summer, I would be happy to provide that.

Thank you,

Dudley Coulter | Stakeholder Engagement Advisor

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Smart about power in all we do.

CERTIFICATE OF ANALYSIS

REPORTED TO	BC Hydro - Burnaby 6911 Southpoint Drive A02 Burnaby, BC V3N 4X8	WORK ORDER	26G3259
ATTENTION	Melissa Fiel de Sousa	RECEIVED / TEMP	2026-07-24 09:40 / 10.6°C
PO NUMBER		REPORTED	2026-07-30 09:37
PROJECT	Interior Health Drinking Water Test	COC NUMBER	No Number
PROJECT INFO			

Introduction:

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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.

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It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

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<https://www.caro.ca/terms-conditions>

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

Authorized By:

Hanane El Hannaoui
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TEST RESULTS

REPORTED TO PROJECT BC Hydro - Burnaby
Interior Health Drinking Water Test

WORK ORDER REPORTED 26G3259
2026-07-30 09:37

Analyte	Result	RL	Units	Analyzed	Qualifier
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Vince (26G3259-01) | Matrix: Drinking Water | Sampled: 2026-07-23 11:30

Microbiological Parameters

Coliforms, Total	≥ 154	1	CFU/100 mL	2026-07-24	
Background Colonies	>200	200	CFU/100 mL	2026-07-24	
Coliforms, Fecal	2	1	CFU/100 mL	2026-07-24	
E. coli	< 1	1	CFU/100 mL	2026-07-24	

Control (26G3259-02) | Matrix: Drinking Water | Sampled: 2026-07-23 11:50

Microbiological Parameters

Coliforms, Total	≥ 106	1	CFU/100 mL	2026-07-24	
Background Colonies	>200	200	CFU/100 mL	2026-07-24	
Coliforms, Fecal	1	1	CFU/100 mL	2026-07-24	
E. coli	≥ 5	1	CFU/100 mL	2026-07-24	

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT BC Hydro - Burnaby
Interior Health Drinking Water Test

WORK ORDER REPORTED 26G3259
2026-07-30 09:37

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

Note: An asterisk in the Method Reference indicates that the 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
>=	Greater than or equal to the specified Result
>2	Greater than the specified Result
CFU/100 mL	Colony Forming Units per 100 millilitres
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

General Comments:

The results in this report apply to samples received by CARO and analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety and must not be modified. CARO is not responsible for losses or damages resulting directly or indirectly from errors or omissions in the conduct of the testing. Any liability is limited to the cost of analysis. CARO will dispose of all samples within 30 days of sample receipt, unless otherwise agreed.

Results in **Bold** indicate values that are above CARO's method reporting limits. Results in **red** indicate values above the regulatory limits where these have been included. 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: hhannaoui@caro.ca

Regulatory limits are added to test reports on request and are as a convenience only. While CARO makes every effort to ensure accuracy of regulatory limits, CARO assumes no liability for the use of this information. It remains the client's responsibility to ensure that regulatory limits are correct for their circumstances.

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO BC Hydro - Burnaby
PROJECT Interior Health Drinking Water Test

WORK ORDER 26G3259
REPORTED 2026-07-30 09:37

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 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
Microbiological Parameters, Batch B6G4372									
Blank (B6G4372-BLK2)				Prepared: 2026-07-24, Analyzed: 2026-07-24					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B6G4372-BLK3)				Prepared: 2026-07-24, Analyzed: 2026-07-24					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B6G4372-BLK4)				Prepared: 2026-07-24, Analyzed: 2026-07-24					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B6G4372-BLK5)				Prepared: 2026-07-24, Analyzed: 2026-07-24					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							

Microbiological Parameters, Batch B6G4395

Blank (B6G4395-BLK1)				Prepared: 2026-07-24, Analyzed: 2026-07-24					
Coliforms, Fecal	< 1	1 CFU/100 mL							

CERTIFICATE OF ANALYSIS

REPORTED TO	BC Hydro - Burnaby 6911 Southpoint Drive A02 Burnaby, BC V3N 4X8		
ATTENTION	Melissa Fiel de Sousa	WORK ORDER	26G2416
PO NUMBER		RECEIVED / TEMP	2026-07-17 09:35 / 17.1°C
PROJECT	Interior Health Drinking Water Test	REPORTED	2026-07-24 15:04
PROJECT INFO		COC NUMBER	No Number

Introduction:

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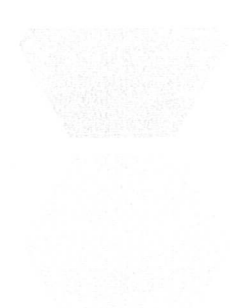
If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

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TEST RESULTS

REPORTED TO PROJECT BC Hydro - Burnaby
Interior Health Drinking Water Test

WORK ORDER REPORTED 26G2416
2026-07-24 15:04

Analyte	Result	RL	Units	Analyzed	Qualifier
Vince (26G2416-01) Matrix: Drinking Water Sampled: 2026-07-15 13:48					
Anions					
Chloride	1.45	0.10	mg/L	2026-07-17	
Fluoride	0.59	0.10	mg/L	2026-07-17	
Nitrate (as N)	0.644	0.010	mg/L	2026-07-17	
Nitrite (as N)	< 0.010	0.010	mg/L	2026-07-17	
Sulfate	5.6	1.0	mg/L	2026-07-17	
Calculated Parameters					
Hardness, Total (as CaCO ₃)	22.9	0.500	mg/L	N/A	
Langelier Index	-2.5	-5.0		2026-07-23	CT6
Nitrogen, Organic	0.463	0.0500	mg/L	N/A	
Solids, Total Dissolved	36.1	1.00	mg/L	N/A	
General Parameters					
Alkalinity, Total (as CaCO ₃)	27.4	1.0	mg/L	2026-07-20	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0	mg/L	2026-07-20	
Alkalinity, Bicarbonate (as CaCO ₃)	27.4	1.0	mg/L	2026-07-20	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0	mg/L	2026-07-20	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0	mg/L	2026-07-20	
Ammonia, Total (as N)	0.074	0.050	mg/L	2026-07-20	
Carbon, Total Organic	0.86	0.50	mg/L	2026-07-20	
Colour, True	< 5.0	5.0	CU	2026-07-17	
Conductivity (EC)	56.8	2.0	µS/cm	2026-07-20	
Cyanide, Total	< 0.0020	0.0020	mg/L	2026-07-20	
Nitrogen, Total Kjeldahl	0.537	0.050	mg/L	2026-07-24	
pH	6.63	0.10	pH units	2026-07-20	HT2
Phosphorus, Total (as P)	0.0196	0.0050	mg/L	2026-07-21	
Temperature, at pH	21.6		°C	2026-07-20	HT2
Turbidity	0.11	0.10	NTU	2026-07-17	
UV Transmittance @ 254 nm - Unfiltered	85.3	0.10	% T	2026-07-18	
Microbiological Parameters					
Coliforms, Total	≥ 127	1	CFU/100 mL	2026-07-17	TLT
Background Colonies	840	1	CFU/100 mL	2026-07-17	HT3
E. coli	< 1	1	CFU/100 mL	2026-07-17	TLT
Total Metals					
Aluminum, total	0.0224	0.0050	mg/L	2026-07-20	
Antimony, total	< 0.00020	0.00020	mg/L	2026-07-20	
Arsenic, total	< 0.00050	0.00050	mg/L	2026-07-20	
Barium, total	0.0178	0.0050	mg/L	2026-07-20	
Boron, total	< 0.0500	0.0500	mg/L	2026-07-20	
Cadmium, total	0.000014	0.000010	mg/L	2026-07-20	
Calcium, total	7.82	0.20	mg/L	2026-07-20	
Chromium, total	< 0.00050	0.00050	mg/L	2026-07-20	

TEST RESULTS

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Interior Health Drinking Water Test

WORK ORDER REPORTED 26G2416
2026-07-24 15:04

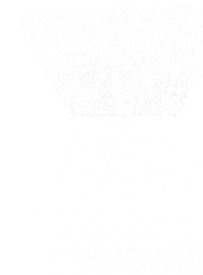
Analyte	Result	RL	Units	Analyzed	Qualifier
Vince (26G2416-01) Matrix: Drinking Water Sampled: 2026-07-15 13:48, Continued					
<i>Total Metals, Continued</i>					
Copper, total	< 0.00040	0.00040	mg/L	2026-07-20	
Iron, total	< 0.010	0.010	mg/L	2026-07-20	
Lead, total	< 0.00020	0.00020	mg/L	2026-07-20	
Magnesium, total	0.805	0.010	mg/L	2026-07-20	
Manganese, total	0.00033	0.00020	mg/L	2026-07-20	
Mercury, total	< 0.000010	0.000010	mg/L	2026-07-22	
Potassium, total	0.31	0.10	mg/L	2026-07-20	
Selenium, total	< 0.00050	0.00050	mg/L	2026-07-20	
Sodium, total	0.57	0.10	mg/L	2026-07-20	
Strontium, total	0.0379	0.0010	mg/L	2026-07-20	
Uranium, total	0.000041	0.000020	mg/L	2026-07-20	
Zinc, total	< 0.0040	0.0040	mg/L	2026-07-20	

Control (26G2416-02) | Matrix: Drinking Water | Sampled: 2026-07-15 14:23

<i>Anions</i>					
Chloride	0.19	0.10	mg/L	2026-07-17	
Fluoride	< 0.10	0.10	mg/L	2026-07-17	
Nitrate (as N)	< 0.010	0.010	mg/L	2026-07-17	
Nitrite (as N)	< 0.010	0.010	mg/L	2026-07-17	
Sulfate	2.7	1.0	mg/L	2026-07-17	

<i>Calculated Parameters</i>					
Hardness, Total (as CaCO ₃)	20.3	0.500	mg/L	N/A	
Langelier Index	-2.7	-5.0		2026-07-23	CT6
Nitrogen, Organic	< 0.0500	0.0500	mg/L	N/A	
Solids, Total Dissolved	27.8	1.00	mg/L	N/A	

<i>General Parameters</i>					
Alkalinity, Total (as CaCO ₃)	27.0	1.0	mg/L	2026-07-20	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0	mg/L	2026-07-20	
Alkalinity, Bicarbonate (as CaCO ₃)	27.0	1.0	mg/L	2026-07-20	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0	mg/L	2026-07-20	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0	mg/L	2026-07-20	
Ammonia, Total (as N)	< 0.050	0.050	mg/L	2026-07-20	
Carbon, Total Organic	0.62	0.50	mg/L	2026-07-20	
Colour, True	< 5.0	5.0	CU	2026-07-17	
Conductivity (EC)	45.1	2.0	µS/cm	2026-07-20	
Cyanide, Total	< 0.0020	0.0020	mg/L	2026-07-20	
Nitrogen, Total Kjeldahl	< 0.050	0.050	mg/L	2026-07-24	
pH	6.52	0.10	pH units	2026-07-20	HT2
Phosphorus, Total (as P)	< 0.0050	0.0050	mg/L	2026-07-21	
Temperature, at pH	21.4		°C	2026-07-20	HT2



TEST RESULTS

REPORTED TO PROJECT BC Hydro - Burnaby
Interior Health Drinking Water Test

WORK ORDER REPORTED 26G2416
2026-07-24 15:04

Analyte	Result	RL	Units	Analyzed	Qualifier
Control (26G2416-02) Matrix: Drinking Water Sampled: 2026-07-15 14:23, Continued					
<i>General Parameters, Continued</i>					
Turbidity	0.11	0.10	NTU	2026-07-17	
UV Transmittance @ 254 nm - Unfiltered	85.3	0.10	% T	2026-07-18	
<i>Microbiological Parameters</i>					
Coliforms, Total	≥ 72	1	CFU/100 mL	2026-07-17	TLT
Background Colonies	250	1	CFU/100 mL	2026-07-17	HT3
E. coli	≥ 1	1	CFU/100 mL	2026-07-17	TLT
<i>Total Metals</i>					
Aluminum, total	0.0272	0.0050	mg/L	2026-07-20	
Antimony, total	< 0.00020	0.00020	mg/L	2026-07-20	
Arsenic, total	< 0.00050	0.00050	mg/L	2026-07-20	
Barium, total	0.0179	0.0050	mg/L	2026-07-20	
Boron, total	< 0.0500	0.0500	mg/L	2026-07-20	
Cadmium, total	< 0.000010	0.000010	mg/L	2026-07-20	
Calcium, total	6.94	0.20	mg/L	2026-07-20	
Chromium, total	< 0.00050	0.00050	mg/L	2026-07-20	
Copper, total	< 0.00040	0.00040	mg/L	2026-07-20	
Iron, total	< 0.010	0.010	mg/L	2026-07-20	
Lead, total	< 0.00020	0.00020	mg/L	2026-07-20	
Magnesium, total	0.706	0.010	mg/L	2026-07-20	
Manganese, total	0.00034	0.00020	mg/L	2026-07-20	
Mercury, total	< 0.000010	0.000010	mg/L	2026-07-22	
Potassium, total	0.29	0.10	mg/L	2026-07-20	
Selenium, total	< 0.00050	0.00050	mg/L	2026-07-20	
Sodium, total	0.49	0.10	mg/L	2026-07-20	
Strontium, total	0.0343	0.0010	mg/L	2026-07-20	
Uranium, total	0.000035	0.000020	mg/L	2026-07-20	
Zinc, total	< 0.0040	0.0040	mg/L	2026-07-20	

Sample Qualifiers:

CT6 Results were based on lab temperature & lab pH.

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

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

TLT Microbiological analysis was initiated beyond the maximum holding time of 30 hours due to delay in courier shipment. Analysis proceeded and results may not be valid.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT BC Hydro - Burnaby
Interior Health Drinking Water Test

WORK ORDER REPORTED 26G2416
2026-07-24 15:04

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH ₃ G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO ₂ Detection	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2021)	Calculation		N/A
Mercury, total in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2021)	Block Digestion and Flow Injection Analysis	✓	Kelowna
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	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 Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Transmittance at 254 nm - Unfiltered in Water	SM 5910 B* (2021)	Ultraviolet Absorption	✓	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)
% T	Percent Transmittance
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
>=	Greater than or equal to the specified Result
°C	Degrees Celcius
CFU/100 mL	Colony Forming Units per 100 millilitres
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
µS/cm	Microsiemens per centimetre
ASTM	ASTM International Test Methods
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association



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PROJECT Interior Health Drinking Water Test

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REPORTED 2026-07-24 15:04

General Comments:

The results in this report apply to samples received by CARO and analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety and must not be modified. CARO is not responsible for losses or damages resulting directly or indirectly from errors or omissions in the conduct of the testing. Any liability is limited to the cost of analysis. CARO will dispose of all samples within 30 days of sample receipt, unless otherwise agreed.

Results in **Bold** indicate values that are above CARO's method reporting limits. Results in **red** indicate values above the regulatory limits where these have been included. 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: hhannaoui@caro.ca

Regulatory limits are added to test reports on request and are as a convenience only. While CARO makes every effort to ensure accuracy of regulatory limits, CARO assumes no liability for the use of this information. It remains the client's responsibility to ensure that regulatory limits are correct for their circumstances.

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT BC Hydro - Burnaby
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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 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 B6G3721

Blank (B6G3721-BLK1)			Prepared: 2026-07-17, Analyzed: 2026-07-17						
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 (B6G3721-BS1)			Prepared: 2026-07-17, Analyzed: 2026-07-17						
Chloride	16.0	0.10 mg/L	16.0		100	90-110			
Fluoride	3.83	0.10 mg/L	4.00		96	88-108			
Nitrate (as N)	2.01	0.010 mg/L	2.00		100	90-110			
Nitrite (as N)	2.19	0.010 mg/L	2.00		110	85-115			
Sulfate	15.8	1.0 mg/L	16.0		99	90-110			

General Parameters, Batch B6G3692

Blank (B6G3692-BLK1)			Prepared: 2026-07-17, Analyzed: 2026-07-20						
Carbon, Total Organic	< 0.50	0.50 mg/L							

Blank (B6G3692-BLK2)			Prepared: 2026-07-18, Analyzed: 2026-07-20						
Carbon, Total Organic	< 0.50	0.50 mg/L							

LCS (B6G3692-BS1)			Prepared: 2026-07-17, Analyzed: 2026-07-20						
Carbon, Total Organic	9.58	0.50 mg/L	10.0		96	78-116			

LCS (B6G3692-BS2)			Prepared: 2026-07-18, Analyzed: 2026-07-20						
Carbon, Total Organic	10.1	0.50 mg/L	10.0		101	78-116			

General Parameters, Batch B6G3731

Blank (B6G3731-BLK1)			Prepared: 2026-07-17, Analyzed: 2026-07-17						
Turbidity	< 0.10	0.10 NTU							

LCS (B6G3731-BS1)			Prepared: 2026-07-17, Analyzed: 2026-07-17						
Turbidity	44.1	0.10 NTU	40.0		110	90-110			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B6G3759									
Blank (B6G3759-BLK1)				Prepared: 2026-07-17, Analyzed: 2026-07-17					
Colour, True	< 5.0	5.0 CU							
LCS (B6G3759-BS1)				Prepared: 2026-07-17, Analyzed: 2026-07-17					
Colour, True	18	5.0 CU	20.0		90	85-115			
General Parameters, Batch B6G3783									
Blank (B6G3783-BLK1)				Prepared: 2026-07-18, Analyzed: 2026-07-18					
UV Transmittance @ 254 nm - Unfiltered	< 0.10	0.10 % T							
LCS (B6G3783-BS1)				Prepared: 2026-07-18, Analyzed: 2026-07-18					
UV Transmittance @ 254 nm - Unfiltered	38.1	0.10 % T	40.1		95	95-105			
General Parameters, Batch B6G3828									
Blank (B6G3828-BLK1)				Prepared: 2026-07-20, Analyzed: 2026-07-20					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
Temperature, at pH	21.2	°C							
Blank (B6G3828-BLK2)				Prepared: 2026-07-20, Analyzed: 2026-07-20					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Temperature, at pH	21.3	°C							
LCS (B6G3828-BS1)				Prepared: 2026-07-21, Analyzed: 2026-07-21					
Alkalinity, Total (as CaCO ₃)	105	1.0 mg/L	100		105	90-110			
LCS (B6G3828-BS2)				Prepared: 2026-07-21, Analyzed: 2026-07-21					
Conductivity (EC)	1360	2.0 µS/cm	1410		97	95-105			
LCS (B6G3828-BS3)				Prepared: 2026-07-21, Analyzed: 2026-07-21					
Alkalinity, Total (as CaCO ₃)	104	1.0 mg/L	100		104	90-110			
LCS (B6G3828-BS4)				Prepared: 2026-07-21, Analyzed: 2026-07-21					
Conductivity (EC)	1380	2.0 µS/cm	1410		98	95-105			
Duplicate (B6G3828-DUP2)				Source: 26G2416-02		Prepared: 2026-07-20, Analyzed: 2026-07-20			
Alkalinity, Total (as CaCO ₃)	27.3	1.0 mg/L		27.0		< 1	10		
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L		< 1.0			10		
Alkalinity, Bicarbonate (as CaCO ₃)	27.3	1.0 mg/L		27.0		< 1	10		
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L		< 1.0			10		
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L		< 1.0			10		
pH	6.56	0.10 pH units		6.52		< 1	4		HT2
General Parameters, Batch B6G3836									
Blank (B6G3836-BLK1)				Prepared: 2026-07-20, Analyzed: 2026-07-20					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							

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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 B6G3836, Continued

Blank (B6G3836-BLK2)					Prepared: 2026-07-20, Analyzed: 2026-07-20				
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B6G3836-BS1)					Prepared: 2026-07-20, Analyzed: 2026-07-20				
Ammonia, Total (as N)	1.09	0.050 mg/L	1.00		109	85-115			
LCS (B6G3836-BS2)					Prepared: 2026-07-20, Analyzed: 2026-07-20				
Ammonia, Total (as N)	1.07	0.050 mg/L	1.00		107	85-115			

General Parameters, Batch B6G3890

Blank (B6G3890-BLK1)					Prepared: 2026-07-20, Analyzed: 2026-07-20				
Cyanide, Total	< 0.0020	0.0020 mg/L							
Blank (B6G3890-BLK2)					Prepared: 2026-07-20, Analyzed: 2026-07-20				
Cyanide, Total	< 0.0020	0.0020 mg/L							
LCS (B6G3890-BS1)					Prepared: 2026-07-20, Analyzed: 2026-07-20				
Cyanide, Total	0.0200	0.0020 mg/L	0.0200		100	82-120			
LCS (B6G3890-BS2)					Prepared: 2026-07-20, Analyzed: 2026-07-20				
Cyanide, Total	0.0181	0.0020 mg/L	0.0200		90	82-120			
LCS Dup (B6G3890-BSD1)					Prepared: 2026-07-20, Analyzed: 2026-07-20				
Cyanide, Total	0.0201	0.0020 mg/L	0.0200		101	82-120	1	10	
LCS Dup (B6G3890-BSD2)					Prepared: 2026-07-20, Analyzed: 2026-07-20				
Cyanide, Total	0.0183	0.0020 mg/L	0.0200		91	82-120	1	10	

General Parameters, Batch B6G4311

Blank (B6G4311-BLK1)					Prepared: 2026-07-23, Analyzed: 2026-07-24				
Nitrogen, Total Kjeldahl	< 0.050	0.050 mg/L							
Blank (B6G4311-BLK2)					Prepared: 2026-07-23, Analyzed: 2026-07-24				
Nitrogen, Total Kjeldahl	< 0.050	0.050 mg/L							
LCS (B6G4311-BS1)					Prepared: 2026-07-23, Analyzed: 2026-07-24				
Nitrogen, Total Kjeldahl	0.955	0.050 mg/L	1.00		96	85-115			
LCS (B6G4311-BS2)					Prepared: 2026-07-23, Analyzed: 2026-07-24				
Nitrogen, Total Kjeldahl	0.955	0.050 mg/L	1.00		96	85-115			

Microbiological Parameters, Batch B6G3641

Blank (B6G3641-BLK1)					Prepared: 2026-07-17, Analyzed: 2026-07-17				
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B6G3641-BLK2)					Prepared: 2026-07-17, Analyzed: 2026-07-17				
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B6G3641-BLK3)					Prepared: 2026-07-17, Analyzed: 2026-07-17				
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							

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<i>Microbiological Parameters, Batch B6G3641, Continued</i>									
Blank (B6G3641-BLK4)				Prepared: 2026-07-17, Analyzed: 2026-07-17					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B6G3641-BLK5)				Prepared: 2026-07-17, Analyzed: 2026-07-17					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B6G3641-BLK6)				Prepared: 2026-07-17, Analyzed: 2026-07-17					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B6G3641-BLK7)				Prepared: 2026-07-17, Analyzed: 2026-07-17					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B6G3641-BLK8)				Prepared: 2026-07-17, Analyzed: 2026-07-17					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B6G3641-BLK9)				Prepared: 2026-07-17, Analyzed: 2026-07-17					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Duplicate (B6G3641-DUP5)				Source: 26G2416-02	Prepared: 2026-07-17, Analyzed: 2026-07-17				
Coliforms, Total	>= 92	1 CFU/100 mL		>= 72				82	
E. coli	< 1	1 CFU/100 mL		>= 1				104	MIC29

Microbiological Parameters, Batch B6G3678

Blank (B6G3678-BLK1)				Prepared: 2026-07-17, Analyzed: 2026-07-17					
Background Colonies	< 1	1 CFU/100 mL							
Duplicate (B6G3678-DUP1)				Source: 26G2416-02	Prepared: 2026-07-17, Analyzed: 2026-07-17				
Background Colonies	330	1 CFU/100 mL		250			28	40	

Total Metals, Batch B6G3661

Blank (B6G3661-BLK1)				Prepared: 2026-07-20, Analyzed: 2026-07-20					
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0500	0.0500 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B6G3661, Continued									
Blank (B6G3661-BLK1), Continued					Prepared: 2026-07-20, Analyzed: 2026-07-20				
Zinc, total	< 0.0040	0.0040 mg/L							
LCS (B6G3661-BS1)					Prepared: 2026-07-20, Analyzed: 2026-07-21				
Aluminum, total	3.90	0.0050 mg/L	4.00		97	80-120			
Antimony, total	0.0398	0.00020 mg/L	0.0400		100	80-120			
Arsenic, total	0.393	0.00050 mg/L	0.400		98	80-120			
Barium, total	0.0408	0.0050 mg/L	0.0400		102	80-120			
Boron, total	0.396	0.0500 mg/L	0.400		99	80-120			
Cadmium, total	0.0405	0.000010 mg/L	0.0400		101	80-120			
Calcium, total	3.88	0.20 mg/L	4.00		97	80-120			
Chromium, total	0.0399	0.00050 mg/L	0.0400		100	80-120			
Cobalt, total	0.0390	0.00010 mg/L	0.0400		97	80-120			
Copper, total	0.0382	0.00040 mg/L	0.0400		96	80-120			
Iron, total	4.07	0.010 mg/L	4.00		102	80-120			
Lead, total	0.0414	0.00020 mg/L	0.0400		103	80-120			
Magnesium, total	3.92	0.010 mg/L	4.00		98	80-120			
Manganese, total	0.0404	0.00020 mg/L	0.0400		101	80-120			
Molybdenum, total	0.0396	0.00010 mg/L	0.0400		99	80-120			
Nickel, total	0.0386	0.00040 mg/L	0.0400		97	80-120			
Potassium, total	4.07	0.10 mg/L	4.00		102	80-120			
Selenium, total	0.384	0.00050 mg/L	0.400		96	80-120			
Sodium, total	4.03	0.10 mg/L	4.00		101	80-120			
Strontium, total	0.0402	0.0010 mg/L	0.0400		101	80-120			
Zinc, total	0.385	0.0040 mg/L	0.400		96	80-120			

Total Metals, Batch B6G3664

Blank (B6G3664-BLK1)			Prepared: 2026-07-20, Analyzed: 2026-07-20						
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0500	0.0500 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
LCS (B6G3664-BS1)			Prepared: 2026-07-20, Analyzed: 2026-07-20						
Aluminum, total	3.92	0.0050 mg/L	4.00		98	80-120			
Antimony, total	0.0397	0.00020 mg/L	0.0400		99	80-120			
Arsenic, total	0.395	0.00050 mg/L	0.400		99	80-120			
Barium, total	0.0403	0.0050 mg/L	0.0400		101	80-120			
Boron, total	0.421	0.0500 mg/L	0.400		105	80-120			
Cadmium, total	0.0400	0.000010 mg/L	0.0400		100	80-120			
Calcium, total	3.93	0.20 mg/L	4.00		98	80-120			

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Total Metals, Batch B6G3664, Continued

LCS (B6G3664-BS1), Continued

Prepared: 2026-07-20, Analyzed: 2026-07-20

Chromium, total	0.0403	0.00050 mg/L	0.0400		101	80-120			
Cobalt, total	0.0393	0.00010 mg/L	0.0400		98	80-120			
Copper, total	0.0396	0.00040 mg/L	0.0400		99	80-120			
Iron, total	4.05	0.010 mg/L	4.00		101	80-120			
Lead, total	0.0416	0.00020 mg/L	0.0400		104	80-120			
Magnesium, total	4.05	0.010 mg/L	4.00		101	80-120			
Manganese, total	0.0402	0.00020 mg/L	0.0400		100	80-120			
Molybdenum, total	0.0392	0.00010 mg/L	0.0400		98	80-120			
Nickel, total	0.0395	0.00040 mg/L	0.0400		99	80-120			
Potassium, total	4.07	0.10 mg/L	4.00		102	80-120			
Selenium, total	0.392	0.00050 mg/L	0.400		98	80-120			
Sodium, total	4.08	0.10 mg/L	4.00		102	80-120			
Strontium, total	0.0403	0.0010 mg/L	0.0400		101	80-120			
Uranium, total	0.0415	0.000020 mg/L	0.0400		104	80-120			
Zinc, total	0.384	0.0040 mg/L	0.400		96	80-120			

Total Metals, Batch B6G4111

Blank (B6G4111-BLK1)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	< 0.000010	0.000010 mg/L							
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Blank (B6G4111-BLK2)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	< 0.000010	0.000010 mg/L							
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Blank (B6G4111-BLK3)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	< 0.000010	0.000010 mg/L							
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Blank (B6G4111-BLK4)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	< 0.000010	0.000010 mg/L							
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Blank (B6G4111-BLK5)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	< 0.000010	0.000010 mg/L							
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Blank (B6G4111-BLK6)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	< 0.000010	0.000010 mg/L							
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Blank (B6G4111-BLK7)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	< 0.000010	0.000010 mg/L							
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LCS (B6G4111-BS1)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	0.00251	0.000010 mg/L	0.00250		101	80-120			
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LCS (B6G4111-BS2)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	0.00244	0.000010 mg/L	0.00250		97	80-120			
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LCS (B6G4111-BS3)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	0.00248	0.000010 mg/L	0.00250		99	80-120			
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LCS (B6G4111-BS4)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	0.00255	0.000010 mg/L	0.00250		102	80-120			
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LCS (B6G4111-BS5)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	0.00250	0.000010 mg/L	0.00250		100	80-120			
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LCS (B6G4111-BS6)

Prepared: 2026-07-22, Analyzed: 2026-07-22

Mercury, total	0.00244	0.000010 mg/L	0.00250		97	80-120			
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APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT BC Hydro - Burnaby
Interior Health Drinking Water Test

WORK ORDER REPORTED 26G2416
2026-07-24 15:04

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<i>Total Metals, Batch B6G4111, Continued</i>									
LCS (B6G4111-BS7)				Prepared: 2026-07-22, Analyzed: 2026-07-22					
Mercury, total	0.00254	0.000010 mg/L	0.00250		102	80-120			
Matrix Spike (B6G4111-MS2)				Source: 26G2416-02 Prepared: 2026-07-22, Analyzed: 2026-07-22					
Mercury, total	0.00226	0.000010 mg/L	0.00250	< 0.000010	90	70-130			

QC Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

MIC29 The difference in logs is less than the R value.

