

CERTIFICATE OF ANALYSIS

REPORTED TO Prince George, City of - Pump Station

> 1100 Patricia Boulevard Prince George, BC V2L 3v9

ATTENTION Cheyenne Magee **WORK ORDER** 23D1953

PO NUMBER

2023-04-19 09:45 / 7.8°C **RECEIVED / TEMP** Raw Water - PW 660 **REPORTED** 2023-05-08 13:37 **PROJECT** No Number

PROJECT INFO [info]

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.

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

We've Got Chemistry

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

Ahead of the Curve

COC NUMBER

Through research, regulation and instrumentation, knowledge, are your analytical centre the knowledge technical you BEFORE you need it, so you can stay up to date and in the know.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here: https://www.caro.ca/terms-conditions

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

Authorized By:

Preena Mand

Client Service Team Lead

1-888-311-8846 | www.caro.ca



TEST RESULTS

Tellurium, dissolved

REPORTED TO PROJECT	Prince George, Cit Raw Water - PW 6	ry of - Pump Station 60		WORK ORDER REPORTED	23D1953 2023-05-0	8 13:37
Analyte		Result	RL	Units	Analyzed	Qualifier
WT# 14C95 - PW6	660 (23D1953-01) N	Matrix: Water Sampled: 202	3-04-18 13:00			
Anions						
Bromide		< 0.10	0.10	mg/L	2023-04-20	
Chloride		4.27		mg/L	2023-04-20	
Fluoride		< 0.10		mg/L	2023-04-20	
Nitrate (as N)		0.040	0.010		2023-04-20	
Nitrite (as N)		< 0.010	0.010		2023-04-20	
Phosphate (as P)		< 0.0050	0.0050		2023-04-20	
Sulfate		6.9		mg/L	2023-04-20	
Calculated Parame	ters			<u> </u>		
Total Trihalometha		< 0.00400	0.00400	ma/L	N/A	
Hardness, Dissolv	red (as CaCO3)	93.7	0.500		N/A	
Nitrate+Nitrite (as		0.0396	0.0100		N/A	
Nitrogen, Total	,	< 0.0500	0.0500		N/A	
Dissolved Metals						
Aluminum, dissolv	red	< 0.0050	0.0050	mg/L	2023-04-23	
Antimony, dissolve	ed	< 0.00020	0.00020		2023-04-23	
Arsenic, dissolved		< 0.00050	0.00050		2023-04-23	
Barium, dissolved		0.0285	0.0050		2023-04-23	
Beryllium, dissolve	ed	< 0.00010	0.00010		2023-04-23	
Bismuth, dissolved	d	< 0.00010	0.00010		2023-04-23	
Boron, dissolved		< 0.0500	0.0500	mg/L	2023-04-23	
Cadmium, dissolve	ed	0.000012	0.000010	mg/L	2023-04-23	
Calcium, dissolved	d	25.2	0.20	mg/L	2023-04-23	
Chromium, dissolv	/ed	< 0.00050	0.00050	mg/L	2023-04-23	
Cobalt, dissolved		< 0.00010	0.00010	mg/L	2023-04-23	
Copper, dissolved		0.0153	0.00040	mg/L	2023-04-23	
Iron, dissolved		< 0.010	0.010	mg/L	2023-04-23	
Lead, dissolved		0.00251	0.00020	mg/L	2023-04-23	
Lithium, dissolved		< 0.00010	0.00010	mg/L	2023-04-23	
Magnesium, disso	lved	7.46	0.010	mg/L	2023-04-23	
Manganese, disso	lved	0.00237	0.00020	mg/L	2023-04-23	
Mercury, dissolved	d	< 0.000010	0.000010	mg/L	2023-04-24	
Molybdenum, diss	solved	0.00157	0.00010	mg/L	2023-04-23	
Nickel, dissolved		< 0.00040	0.00040		2023-04-23	
Phosphorus, disso	olved	< 0.050	0.050	mg/L	2023-04-23	
Potassium, dissolv	ved	1.12	0.10	mg/L	2023-04-23	
Selenium, dissolve	ed	0.00053	0.00050	mg/L	2023-04-23	
Silicon, dissolved		5.0	1.0	mg/L	2023-04-23	
Silver, dissolved		< 0.000050	0.000050	mg/L	2023-04-23	
Sodium, dissolved	<u> </u>	4.72	0.10	mg/L	2023-04-23	
Strontium, dissolve	ed	0.110	0.0010	mg/L	2023-04-23	
Sulfur, dissolved		< 3.0	3.0	mg/L	2023-04-23	
Tallianiana dia adua	1	4 O OOOFO	0.00050	"	2022 04 22	

2023-04-23

0.00050 mg/L

< 0.00050



TEST RESULTS

REPORTED TO PROJECT	Prince George, City o Raw Water - PW 660	f - Pump Station		WORK ORDER REPORTED	23D1953 2023-05-0	8 13:37
Analyte		Result	RL	Units	Analyzed	Qualifier
WT# 14C95 - PW6	660 (23D1953-01) Mati	rix: Water Sampled: 20	023-04-18 13:00, Continued			
Dissolved Metals, (Continued					
Thallium, dissolve	d	< 0.000020	0.000020	mg/L	2023-04-23	
Thorium, dissolved	d	< 0.00010	0.00010	mg/L	2023-04-23	
Tin, dissolved		< 0.00020	0.00020	mg/L	2023-04-23	
Titanium, dissolve	d	< 0.0050	0.0050	mg/L	2023-04-23	
Tungsten, dissolve	ed	< 0.0010	0.0010		2023-04-23	
Uranium, dissolve		0.000159	0.000020		2023-04-23	
Vanadium, dissolv	red	< 0.0050	0.0050		2023-04-23	
Zinc, dissolved		0.0067	0.0040	mg/L	2023-04-23	
Zirconium, dissolv	red	< 0.00010	0.00010		2023-04-23	
General Parameter	s					
Adsorbable Organ	nic Halides	< 50	50	μg/L	2023-04-27	
Alkalinity, Total (as		96.5		mg/L	2023-04-21	
	ohthalein (as CaCO3)	< 1.0		mg/L	2023-04-21	
Alkalinity, Bicarbor		96.5		mg/L	2023-04-21	
Alkalinity, Carbona		< 1.0		mg/L	2023-04-21	
Alkalinity, Hydroxid	,	< 1.0		mg/L	2023-04-21	
Ammonia, Total (a	· · · · · · · · · · · · · · · · · · ·	< 0.050	0.050		2023-04-20	
Carbon, Total Orga	· · · · · · · · · · · · · · · · · · ·	1.94	0.50		2023-04-20	
Nitrogen, Total Kje		< 0.050	0.050	mg/L	2023-04-21	
Solids, Total Susp		< 2.0		mg/L	2023-04-21	
Microbiological Pa	rameters					
Coliforms, Total		< 1	1	CFU/100 mL	2023-04-19	
Coliforms, Fecal		 <1		CFU/100 mL	2023-04-19	
E. coli		 <1		CFU/100 mL	2023-04-19	
		·	<u> </u>			
Total Metals						
Aluminum, total		< 0.0050	0.0050		2023-04-25	
Antimony, total		< 0.00020	0.00020	mg/L	2023-04-25	
Arsenic, total		< 0.00050	0.00050		2023-04-25	
Barium, total		0.0292	0.0050		2023-04-25	
Beryllium, total		< 0.00010	0.00010		2023-04-25	
Bismuth, total		< 0.00010	0.00010		2023-04-25	
Boron, total		< 0.0500	0.0500		2023-04-25	
Cadmium, total		0.000011	0.000010		2023-04-25	
Calcium, total		25.4	0.20	mg/L	2023-04-25	
Chromium, total		< 0.00050	0.00050		2023-04-25	
Cobalt, total		< 0.00010	0.00010	mg/L	2023-04-25	
Copper, total		0.0161	0.00040	mg/L	2023-04-25	
Iron, total		< 0.010	0.010		2023-04-25	
Lead, total		0.00267	0.00020		2023-04-25	
Lithium, total		0.00013	0.00010		2023-04-25	
Magnesium, total		7.07	0.010	mg/L	2023-04-25	



TEST RESULTS

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PROJECT Raw Water - PW 660

WORK ORDER REPORTED 23D1953 2023-05-08 13:37

2023-04-25

Amalista	Posult	DI 11-14-	A II	0
Analyte	Result	RL Units	Analyzed	Qualifier

otal Metals, Continued				
Manganese, total	0.00238	0.00020	mg/L	2023-04-25
Mercury, total	< 0.000010	0.000010	mg/L	2023-04-24
Molybdenum, total	0.00169	0.00010	mg/L	2023-04-25
Nickel, total	0.00065	0.00040	mg/L	2023-04-25
Phosphorus, total	< 0.050	0.050	mg/L	2023-04-25
Potassium, total	1.06	0.10	mg/L	2023-04-25
Selenium, total	0.00052	0.00050	mg/L	2023-04-25
Silicon, total	4.9	1.0	mg/L	2023-04-25
Silver, total	< 0.000050	0.000050	mg/L	2023-04-25
Sodium, total	4.69	0.10	mg/L	2023-04-25
Strontium, total	0.110	0.0010	mg/L	2023-04-25
Sulfur, total	< 3.0	3.0	mg/L	2023-04-25
Tellurium, total	< 0.00050	0.00050	mg/L	2023-04-25
Thallium, total	< 0.000020	0.000020	mg/L	2023-04-25
Thorium, total	< 0.00010	0.00010	mg/L	2023-04-25
Tin, total	< 0.00020	0.00020	mg/L	2023-04-25
Titanium, total	< 0.0050	0.0050	mg/L	2023-04-25
Tungsten, total	< 0.0010	0.0010	mg/L	2023-04-25
Uranium, total	0.000166	0.000020	mg/L	2023-04-25
Vanadium, total	< 0.0050	0.0050	mg/L	2023-04-25
Zinc, total	0.0077	0.0040	mg/L	2023-04-25

Volatile Organic Compounds (VOC)

Zirconium, total

Bromodichloromethane	< 0.0010	0.0010 mg/L	2023-04-24
Bromoform	< 0.0010	0.0010 mg/L	2023-04-24
Chloroform	< 0.0010	0.0010 mg/L	2023-04-24
Dibromochloromethane	< 0.0010	0.0010 mg/L	2023-04-24
Surrogate: Toluene-d8	109	70-130 %	2023-04-24
Surrogate: 4-Bromofluorobenzene	94	70-130 %	2023-04-24

0.00010 mg/L

< 0.00010



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Prince George, City of - Pump Station

PROJECT Raw Water - PW 660

WORK ORDER

23D1953

REPORTED 2023-05-08 13:37

Analysis Description	Method Ref.	Technique	Accredited	Location
Adsorbable Organic Halogen in Water	PAPTAC/ISO - low level	Adsorption, Coulometric Titration		Sublet
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH3 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 CO2 Detection	✓	Kelowna
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
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Mercury, total in Water	EPA 245.7*	BrCl2 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
Solids, Total Suspended in Water	Solids in Water, Filtered / SM 2540 D* (2020)	Solids in Water, Filtered / Gravimetry (Dried at 103-105C)	✓	Kelowna
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	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

CFU/100 mL Colony Forming Units per 100 millilitres

 $\begin{array}{ll} \text{mg/L} & \text{Milligrams per litre} \\ \mu\text{g/L} & \text{Micrograms per litre} \end{array}$

EPA United States Environmental Protection Agency Test Methods

PAPTAC Pulp and Paper Technical Association of Canada Standard Test Methods

SM Standard Methods for the Examination of Water and Wastewater, American Public Health Association



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Prince George, City of - Pump Station

PROJECT Raw Water - PW 660

WORK ORDER
REPORTED

23D1953

2023-05-08 13:37

General Comments:

The results in this report apply to the received 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. 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. 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 <u>not</u> 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:pmand@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.



REPORTED TO Prince George, City of - Pump Station

PROJECT Raw Water - PW 660

WORK ORDER REPORTED 23D1953 2023-05-08 13:37

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
Anions, Batch B3D1781									
Blank (B3D1781-BLK1)			Prepared	d: 2023-04-2	20, Analyze	ed: 2023-0	04-20		
Bromide	< 0.10	0.10 mg/L							
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							
Phosphate (as P)	< 0.0050	0.0050 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (B3D1781-BLK2)			Prepared	d: 2023-04-2	20, Analyze	d: 2023-0	04-20		
Bromide	< 0.10	0.10 mg/L							
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							
Phosphate (as P)	< 0.0050	0.0050 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B3D1781-BS1)			Prepared	d: 2023-04-2	20, Analyze	d: 2023-0	04-20		
Bromide	4.04	0.10 mg/L	4.00		101	85-115			
Chloride	16.1	0.10 mg/L	16.0		101	90-110			
Fluoride	4.09	0.10 mg/L	4.00		102	88-108			
Nitrate (as N)	3.96	0.010 mg/L	4.00		99	90-110			
Nitrite (as N)	2.06	0.010 mg/L	2.00		103	85-115			
Phosphate (as P)	0.960	0.0050 mg/L	1.00		96	80-120			
Sulfate	16.1	1.0 mg/L	16.0		101	90-110			
LCS (B3D1781-BS2)			Prepared	d: 2023-04-2	20, Analyze	d: 2023-0	04-20		
Bromide	4.09	0.10 mg/L	4.00		102	85-115			
Chloride	16.1	0.10 mg/L	16.0		101	90-110			
Fluoride	4.15	0.10 mg/L	4.00		104	88-108			
Nitrate (as N)	3.95	0.010 mg/L	4.00		99	90-110			
Nitrite (as N)	2.09	0.010 mg/L	2.00		104	85-115			
Phosphate (as P)	1.07	0.0050 mg/L	1.00		107	80-120			
Sulfate	16.2	1.0 mg/L	16.0		101	90-110			
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REPORTED TO	Prince George, City of - Pump Station	WORK ORDER	23D1953
PROJECT	Raw Water - PW 660	REPORTED	2023-05-08 13:37

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifie
Dissolved Metals, Batch B3D2049, Continu	ıed									
Blank (B3D2049-BLK1)				Prepared	: 2023-04-2	3, Analyze	d: 2023-0	04-23		
Aluminum, dissolved	< 0.0050	0.0050	mg/L							
Antimony, dissolved	< 0.00020	0.00020								
Arsenic, dissolved	< 0.00050	0.00050	mg/L							
Barium, dissolved	< 0.0050	0.0050	mg/L							
Beryllium, dissolved	< 0.00010	0.00010	mg/L							
Bismuth, dissolved	< 0.00010	0.00010	mg/L							
Boron, dissolved	< 0.0500	0.0500	mg/L							
Cadmium, dissolved	< 0.000010	0.000010	mg/L							
Calcium, dissolved	< 0.20	0.20	mg/L							
Chromium, dissolved	< 0.00050	0.00050								
Cobalt, dissolved	< 0.00010	0.00010								
Copper, dissolved	< 0.00040	0.00040								
Iron, dissolved	< 0.010		mg/L							
Lead, dissolved	< 0.00020	0.00020								
Lithium, dissolved	< 0.00010	0.00010								
Magnesium, dissolved	< 0.010	0.010								
Manganese, dissolved	< 0.00020	0.00020								
Molybdenum, dissolved	< 0.00010	0.00010								
Nickel, dissolved	< 0.00040	0.00040								
Phosphorus, dissolved	< 0.050	0.050								
Potassium, dissolved	< 0.10		mg/L							
Selenium, dissolved	< 0.00050	0.00050								
Silicon, dissolved	< 1.0		mg/L							
Silver, dissolved	< 0.000050	0.000050								
Sodium, dissolved	< 0.10		mg/L							
Strontium, dissolved	< 0.0010	0.0010								
Sulfur, dissolved	< 3.0		mg/L							
Tellurium, dissolved	< 0.00050	0.00050								
Thallium, dissolved	< 0.000020	0.000020								
Thorium, dissolved	< 0.00010	0.00010								
Tin, dissolved	< 0.00020	0.00020								
Titanium, dissolved	< 0.0050	0.0050								
Tungsten, dissolved	< 0.0010	0.0010								
Uranium, dissolved	< 0.000020	0.000020								
Vanadium, dissolved	< 0.0050	0.0050								
Zinc, dissolved	< 0.0040	0.0040								
Zirconium, dissolved	< 0.00010	0.00010	mg/L							
LCS (B3D2049-BS1)				Prepared	: 2023-04-2	3, Analyze	d: 2023-0	04-23		
Aluminum, dissolved	4.06	0.0050		4.00		102	80-120			
Antimony, dissolved	0.0411	0.00020		0.0400		103	80-120			
Arsenic, dissolved	0.415	0.00050		0.400		104	80-120			
Barium, dissolved	0.0393	0.0050		0.0400		98	80-120			
Beryllium, dissolved	0.0410	0.00010		0.0400		103	80-120			
Bismuth, dissolved	0.0406	0.00010		0.0400		102	80-120			
Boron, dissolved	0.413	0.0500		0.400		103	80-120			
Cadmium, dissolved	0.0395	0.000010		0.0400		99	80-120			
Calcium, dissolved	4.07		mg/L	4.00		102	80-120			
Chromium, dissolved	0.0410	0.00050		0.0400		103	80-120			
Cobalt, dissolved	0.0411	0.00010		0.0400		103	80-120			
Copper, dissolved	0.0417	0.00040		0.0400		104	80-120			
ron, dissolved	4.25		mg/L	4.00		106	80-120			
Lead, dissolved	0.0401	0.00020		0.0400		100	80-120			
Lithium, dissolved	0.0408	0.00010		0.0400		102	80-120			
Magnesium, dissolved	4.21	0.010		4.00		105	80-120			
Manganese, dissolved	0.0407	0.00020	mg/L	0.0400		102	80-120			



REPORTED TO Prince George, (PROJECT Raw Water - PW	•	tation			REPOR	ORDER TED		1953 8-05-08	13:37
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B3D2049, Co	ontinued								
LCS (B3D2049-BS1), Continued			Prepared:	2023-04-23	3, Analyze	d: 2023-0	04-23		
Molybdenum, dissolved	0.0385	0.00010 mg/L	0.0400		96	80-120			
Nickel, dissolved	0.0404	0.00040 mg/L	0.0400		101	80-120			
Phosphorus, dissolved	4.16	0.050 mg/L	4.00		104	80-120			
Potassium, dissolved	4.14	0.10 mg/L	4.00		103	80-120			
Selenium, dissolved	0.407	0.00050 mg/L	0.400		102	80-120			
Silicon, dissolved	4.2	1.0 mg/L	4.00		106	80-120			
Silver, dissolved	0.0404	0.000050 mg/L	0.0400		101	80-120			
Sodium, dissolved	4.08	0.10 mg/L	4.00		102	80-120			
Strontium, dissolved	0.0408	0.0010 mg/L	0.0400		102	80-120			
Sulfur, dissolved	40.5	3.0 mg/L	40.0		101	80-120			
Tellurium, dissolved	0.0406	0.00050 mg/L	0.0400		102	80-120			
Thallium, dissolved	0.0405	0.000020 mg/L	0.0400		101	80-120			
Thorium, dissolved	0.0413	0.00010 mg/L	0.0400		103	80-120			
Tin, dissolved	0.0394	0.00010 mg/L	0.0400		99	80-120			
Titanium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120			
•	0.0405	0.0030 mg/L	0.0400		101	80-120			
Tungsten, dissolved									
Uranium, dissolved	0.0410	0.000020 mg/L	0.0400		102	80-120			
Vanadium, dissolved	0.0407	0.0050 mg/L	0.0400		102	80-120			
Zinc, dissolved Zirconium, dissolved	0.415 0.0401	0.0040 mg/L 0.00010 mg/L	0.400		104	80-120 80-120			
Blank (B3D2141-BLK1)	< 0.000010	0.000010 mg/l	Prepared:	2023-04-24	I, Analyze	d: 2023-0)4-24		
Blank (B3D2141-BLK1) Mercury, dissolved	< 0.000010	0.000010 mg/L	•						
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved	< 0.000010 0.000234	0.000010 mg/L 0.000010 mg/L	•	2023-04-24					
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic			Prepared:	2023-04-24 2023-04-18	I, Analyze 94 3, Analyze	d: 2023-0 80-120 d: 2023-0	04-24 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved Seneral Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2)	0.000234 < 0.50	0.000010 mg/L 0.50 mg/L	Prepared:	2023-04-24	I, Analyze 94 3, Analyze	d: 2023-0 80-120 d: 2023-0	04-24 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved Beneral Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic	0.000234	0.000010 mg/L	Prepared: 0.000250 Prepared: Prepared:	2023-04-24 2023-04-18 2023-04-18	94 94 3, Analyze 3, Analyze	d: 2023-0 80-120 d: 2023-0 d: 2023-0	04-24 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3)	< 0.50 < 0.50	0.000010 mg/L 0.50 mg/L 0.50 mg/L	Prepared: 0.000250 Prepared: Prepared:	2023-04-24 2023-04-18	94 94 3, Analyze 3, Analyze	d: 2023-0 80-120 d: 2023-0 d: 2023-0	04-24 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved Seneral Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic	0.000234 < 0.50	0.000010 mg/L 0.50 mg/L	Prepared: Prepared: Prepared: Prepared:	2023-04-24 2023-04-18 2023-04-18 2023-04-19	94 94 3, Analyze 3, Analyze	d: 2023-0 80-120 d: 2023-0 d: 2023-0 d: 2023-0	04-24 04-18 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1)	< 0.50 < 0.50 < 0.50	0.000010 mg/L 0.50 mg/L 0.50 mg/L	Prepared: Prepared: Prepared: Prepared:	2023-04-24 2023-04-18 2023-04-18	94 94 3, Analyze 3, Analyze 9, Analyze	d: 2023-0 80-120 d: 2023-0 d: 2023-0 d: 2023-0	04-24 04-18 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic	< 0.50 < 0.50	0.000010 mg/L 0.50 mg/L 0.50 mg/L	Prepared: Prepared: Prepared: Prepared: Prepared:	2023-04-18 2023-04-18 2023-04-18 2023-04-18	3, Analyze 9, Analyze 9, Analyze 9, Analyze 97	d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 78-116	04-24 04-18 04-18 04-19		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved Seneral Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic	< 0.50 < 0.50 < 0.50 9.69	0.000010 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L	Prepared: Prepared: Prepared: Prepared: Prepared: Prepared: Prepared: Prepared:	2023-04-24 2023-04-18 2023-04-18 2023-04-19	3, Analyze 3, Analyze 3, Analyze 3, Analyze 97 3, Analyze	d: 2023-0	04-24 04-18 04-18 04-19		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic	< 0.50 < 0.50 < 0.50	0.000010 mg/L 0.50 mg/L 0.50 mg/L	Prepared: Prepared: Prepared: Prepared: Prepared: 10.0 Prepared: 10.0	2023-04-18 2023-04-18 2023-04-19 2023-04-18 2023-04-18	3, Analyze 3, Analyze 3, Analyze 97 3, Analyze 99	d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 78-116 d: 2023-0 78-116	04-24 04-18 04-19 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved Beneral Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic	0.000234< 0.50< 0.50< 0.509.699.86	0.000010 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L	Prepared: O.000250 Prepared: Prepared: Prepared: 10.0 Prepared: 10.0 Prepared:	2023-04-18 2023-04-18 2023-04-18 2023-04-18	3, Analyze 9, Analyze 97 3, Analyze 97 3, Analyze 99 9, Analyze	d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 78-116 d: 2023-0 78-116 d: 2023-0	04-24 04-18 04-19 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic LCS (B3D1469-BS3) Carbon, Total Organic	< 0.50 < 0.50 < 0.50 9.69	0.000010 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L	Prepared: Prepared: Prepared: Prepared: Prepared: 10.0 Prepared: 10.0	2023-04-18 2023-04-18 2023-04-19 2023-04-18 2023-04-18	3, Analyze 3, Analyze 3, Analyze 97 3, Analyze 99	d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 78-116 d: 2023-0 78-116	04-24 04-18 04-19 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic LCS (B3D1469-BS3) Carbon, Total Organic CS (B3D1469-BS3) Carbon, Total Organic	0.000234< 0.50< 0.50< 0.509.699.86	0.000010 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L	Prepared: 0.000250 Prepared: Prepared: Prepared: 10.0 Prepared: 10.0 Prepared: 10.0	2023-04-18 2023-04-18 2023-04-19 2023-04-18 2023-04-18	3, Analyze 9, Analyze 97 3, Analyze 97 3, Analyze 99 9, Analyze	d: 2023-0 80-120 d: 2023-0 d: 2023-0 d: 2023-0 78-116 d: 2023-0 78-116	04-24 04-18 04-18 04-18 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic LCS (B3D1469-BS3) Carbon, Total Organic CS (B3D1469-BS3) Carbon, Total Organic	0.000234< 0.50< 0.50< 0.509.699.86	0.000010 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L	Prepared: 0.000250 Prepared: Prepared: Prepared: 10.0 Prepared: 10.0 Prepared: 10.0	2023-04-18 2023-04-18 2023-04-18 2023-04-18 2023-04-18	3, Analyze 9, Analyze 97 3, Analyze 97 3, Analyze 99 9, Analyze	d: 2023-0 80-120 d: 2023-0 d: 2023-0 d: 2023-0 78-116 d: 2023-0 78-116	04-24 04-18 04-18 04-18 04-18		
Blank (B3D2141-BLK1) Mercury, dissolved LCS (B3D2141-BS1) Mercury, dissolved General Parameters, Batch B3D1469 Blank (B3D1469-BLK1) Carbon, Total Organic Blank (B3D1469-BLK2) Carbon, Total Organic Blank (B3D1469-BLK3) Carbon, Total Organic LCS (B3D1469-BS1) Carbon, Total Organic LCS (B3D1469-BS2) Carbon, Total Organic LCS (B3D1469-BS3) Carbon, Total Organic CS (B3D1469-BS3) Carbon, Total Organic	0.000234 < 0.50 < 0.50 < 0.50 9.69 9.86 10.4	0.000010 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L 0.50 mg/L	Prepared: 0.000250 Prepared: Prepared: 10.0 Prepared: 10.0 Prepared: 10.0 Prepared:	2023-04-18 2023-04-18 2023-04-18 2023-04-18 2023-04-18	3, Analyze 9, Analyze 97 3, Analyze 97 3, Analyze 97 4, Analyze 104 0, Analyze	d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 d: 2023-0 78-116 d: 2023-0 78-116 d: 2023-0 78-116	04-24 04-18 04-18 04-19 04-18 04-19		



PROJECT F	rince George, City o Raw Water - PW 660	f - Pump Sta	ation			WORK (23D ² 2023	1953 8-05-08	13:37
Analyte		Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters,	Batch B3D1766, Conti	nued								
LCS (B3D1766-BS1)				Prepared	2023-04-20	, Analyze	d: 2023-0	4-21		
Solids, Total Suspended		98.0	10.0 mg/L	100		98	85-115			
LCS (B3D1766-BS2)				Prepared	2023-04-20	. Analvze	d: 2023-0	4-21		
Solids, Total Suspended		104	10.1 mg/L	100		104	85-115			
General Parameters,	Batch B3D1778									
Blank (B3D1778-BLK	1)			Prepared	2023-04-20	, Analyze	d: 2023-0	4-20		
Ammonia, Total (as N)		< 0.050	0.050 mg/L							
Blank (B3D1778-BLK	2)			Prepared	2023-04-20	, Analyze	d: 2023-0	4-20		
Ammonia, Total (as N)		< 0.050	0.050 mg/L	•						
Blank (B3D1778-BLK	3)			Prepared	2023-04-20	, Analyze	d: 2023-0	4-20		
Ammonia, Total (as N)	•	< 0.050	0.050 mg/L			,				
LCS (B3D1778-BS1)				Prepared	2023-04-20	Analyze	d: 2023-0	4-20		
Ammonia, Total (as N)		0.994	0.050 mg/L	1.00	. 2020 0 1 20	99	85-115	. 20		
LCS (B3D1778-BS2)			J	Drenared	: 2023-04-20	Analyze	4· 2023-0	4 -20		
Ammonia, Total (as N)		0.988	0.050 mg/L	1.00	. 2020-04-20	99	85-115	- -20		
LCS (B3D1778-BS3)		0.000	0.000g/_		: 2023-04-20			4.20		
		0.995	0.050 mg/L	1.00	. 2023-04-20	100	85-115	4-20		
Ammonia, Total (as N)		0.995	0.000 Hig/L	1.00						
General Parameters,					: 2023-04-20), Analyzed	d: 2023-0	4-21		
General Parameters,		< 0.050	0.050 mg/L		: 2023-04-20	ı, Analyzed	d: 2023-0	4-21		
General Parameters,	1)	< 0.050	0.050 mg/L	Prepared	: 2023-04-20					
General Parameters, I Blank (B3D1816-BLK Nitrogen, Total Kjeldahl	1)			Prepared						
General Parameters, I Blank (B3D1816-BLK Nitrogen, Total Kjeldahl Blank (B3D1816-BLK	1)	< 0.050	0.050 mg/L	Prepared Prepared), Analyzed	d: 2023-0	4-21		
General Parameters, I Blank (B3D1816-BLK Nitrogen, Total Kjeldahl Blank (B3D1816-BLK Nitrogen, Total Kjeldahl	1)	< 0.050	0.050 mg/L	Prepared Prepared	: 2023-04-20), Analyzed	d: 2023-0	4-21		
General Parameters, I Blank (B3D1816-BLK: Nitrogen, Total Kjeldahl Blank (B3D1816-BLK: Nitrogen, Total Kjeldahl LCS (B3D1816-BS1)	1)	< 0.050 < 0.050	0.050 mg/L 0.050 mg/L	Prepared Prepared 1.00	: 2023-04-20), Analyzed), Analyzed 108	d: 2023-0 d: 2023-0 85-115	4-21 4-21		
General Parameters, I Blank (B3D1816-BLK: Nitrogen, Total Kjeldahl Blank (B3D1816-BLK: Nitrogen, Total Kjeldahl LCS (B3D1816-BS1) Nitrogen, Total Kjeldahl	1)	< 0.050 < 0.050	0.050 mg/L 0.050 mg/L	Prepared Prepared 1.00	: 2023-04-20 : 2023-04-20), Analyzed), Analyzed 108	d: 2023-0 d: 2023-0 85-115	4-21 4-21		
General Parameters, I Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl LCS (B3D1816-BS1) Nitrogen, Total Kjeldahl LCS (B3D1816-BS2)	2)	< 0.050 < 0.050	0.050 mg/L 0.050 mg/L 0.050 mg/L	Prepared Prepared 1.00 Prepared	: 2023-04-20 : 2023-04-20	, Analyzed , Analyzed 108 , Analyzed	d: 2023-0 d: 2023-0 85-115 d: 2023-0	4-21 4-21		
General Parameters, I Blank (B3D1816-BLK: Nitrogen, Total Kjeldahl Blank (B3D1816-BLK: Nitrogen, Total Kjeldahl LCS (B3D1816-BS1) Nitrogen, Total Kjeldahl LCS (B3D1816-BS2) Nitrogen, Total Kjeldahl	1) 2) Batch B3D1911	< 0.050 < 0.050	0.050 mg/L 0.050 mg/L 0.050 mg/L	Prepared Prepared 1.00 Prepared 1.00	: 2023-04-20 : 2023-04-20	, Analyzed 1, Analyzed 108 1, Analyzed	d: 2023-0 d: 2023-0 85-115 d: 2023-0 85-115	4-21 4-21 4-21		
General Parameters, In Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl LCS (B3D1816-BS1) Nitrogen, Total Kjeldahl LCS (B3D1816-BS2) Nitrogen, Total Kjeldahl General Parameters, In Blank (B3D1911-BLK) Alkalinity, Total (as CaCC)	Batch B3D1911	< 0.050 < 0.050 1.08 1.07	0.050 mg/L 0.050 mg/L 0.050 mg/L 0.050 mg/L	Prepared Prepared 1.00 Prepared 1.00	: 2023-04-20 : 2023-04-20 : 2023-04-20	, Analyzed 1, Analyzed 108 1, Analyzed	d: 2023-0 d: 2023-0 85-115 d: 2023-0 85-115	4-21 4-21 4-21		
General Parameters, In Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl LCS (B3D1816-BS1) Nitrogen, Total Kjeldahl LCS (B3D1816-BS2) Nitrogen, Total Kjeldahl General Parameters, In Blank (B3D1911-BLK) Alkalinity, Total (as CaCC) Alkalinity, Phenolphthalei	Batch B3D1911 I) I) I) I(a) I(a	< 0.050 < 0.050 1.08 1.07	0.050 mg/L 0.050 mg/L 0.050 mg/L 0.050 mg/L 1.0 mg/L 1.0 mg/L	Prepared Prepared 1.00 Prepared 1.00	: 2023-04-20 : 2023-04-20 : 2023-04-20	, Analyzed 1, Analyzed 108 1, Analyzed	d: 2023-0 d: 2023-0 85-115 d: 2023-0 85-115	4-21 4-21 4-21		
General Parameters, In Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl LCS (B3D1816-BS1) Nitrogen, Total Kjeldahl LCS (B3D1816-BS2) Nitrogen, Total Kjeldahl General Parameters, In Blank (B3D1911-BLK) Alkalinity, Total (as CaCC)	Batch B3D1911 I) ii) iii)	< 0.050 < 0.050 1.08 1.07	0.050 mg/L 0.050 mg/L 0.050 mg/L 0.050 mg/L	Prepared Prepared 1.00 Prepared 1.00	: 2023-04-20 : 2023-04-20 : 2023-04-20	, Analyzed 1, Analyzed 108 1, Analyzed	d: 2023-0 d: 2023-0 85-115 d: 2023-0 85-115	4-21 4-21 4-21		
General Parameters, In Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl LCS (B3D1816-BS1) Nitrogen, Total Kjeldahl LCS (B3D1816-BS2) Nitrogen, Total Kjeldahl General Parameters, In Blank (B3D1911-BLK) Alkalinity, Total (as CaCC) Alkalinity, Phenolphthalei Alkalinity, Bicarbonate (as	Batch B3D1911 I) I) I) I) I) I) I) I() I()	< 0.050 < 0.050 1.08 1.07 < 1.0 < 1.0 < 1.0 < 1.0	0.050 mg/L 0.050 mg/L 0.050 mg/L 0.050 mg/L 1.0 mg/L 1.0 mg/L 1.0 mg/L	Prepared Prepared 1.00 Prepared 1.00	: 2023-04-20 : 2023-04-20 : 2023-04-20	, Analyzed 1, Analyzed 108 1, Analyzed	d: 2023-0 d: 2023-0 85-115 d: 2023-0 85-115	4-21 4-21 4-21		
General Parameters, In Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl LCS (B3D1816-BS1) Nitrogen, Total Kjeldahl LCS (B3D1816-BS2) Nitrogen, Total Kjeldahl General Parameters, In Blank (B3D1911-BLK) Alkalinity, Total (as CaCC) Alkalinity, Phenolphthalei Alkalinity, Bicarbonate (as Alkalinity, Carbonate (as	Batch B3D1911 (1) (3) (a) (a) (a) (a) (a) (a) (a) (a) (a) (a	< 0.050 < 0.050 1.08 1.07 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0	0.050 mg/L 0.050 mg/L 0.050 mg/L 0.050 mg/L 1.0 mg/L 1.0 mg/L 1.0 mg/L 1.0 mg/L	Prepared Prepared 1.00 Prepared 1.00 Prepared	: 2023-04-20 : 2023-04-20 : 2023-04-20	, Analyzed 108 1, Analyzed 107 107	d: 2023-0 d: 2023-0 85-115 d: 2023-0 85-115	4-21 4-21 4-21 4-21		
General Parameters, In Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl LCS (B3D1816-BS1) Nitrogen, Total Kjeldahl LCS (B3D1816-BS2) Nitrogen, Total Kjeldahl CS (B3D1816-BS2) Nitrogen, Total Kjeldahl General Parameters, In Blank (B3D1911-BLK) Alkalinity, Total (as CaCC) Alkalinity, Phenolphthalei Alkalinity, Bicarbonate (as Alkalinity, Hydroxide (as Calcalinity, Hydroxide (as Calcalinity, Hydroxide (as Calcalinity, Total (as CaCC)	Batch B3D1911 I) I) I3) In (as CaCO3) Is CaCO3) CaCO3) CaCO3) CaCO3)	< 0.050 < 0.050 1.08 1.07 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0	0.050 mg/L 0.050 mg/L 0.050 mg/L 0.050 mg/L 1.0 mg/L 1.0 mg/L 1.0 mg/L 1.0 mg/L 1.0 mg/L	Prepared Prepared 1.00 Prepared 1.00 Prepared	: 2023-04-20 : 2023-04-20 : 2023-04-20 : 2023-04-21	, Analyzed 108 1, Analyzed 107 107	d: 2023-0 d: 2023-0 85-115 d: 2023-0 85-115	4-21 4-21 4-21 4-21		
Blank (B3D1816-BLK: Nitrogen, Total Kjeldahl Blank (B3D1816-BLK: Nitrogen, Total Kjeldahl LCS (B3D1816-BS1) Nitrogen, Total Kjeldahl LCS (B3D1816-BS2) Nitrogen, Total Kjeldahl CS (B3D1816-BS2) Nitrogen, Total Kjeldahl General Parameters, Blank (B3D1911-BLK: Alkalinity, Total (as CaCC Alkalinity, Hydroxide (as Alkalinity, Hydroxide (as Galkalinity, Total (as CaCC Alkalinity, Total (as CaCC Alkalinity, Total (as CaCC Alkalinity, Phenolphthalei	Batch B3D1911 I) I) I3) In (as CaCO3) CaCO3) CaCO3) CaCO3) CaCO3) CaCO3) CaCO3) CaCO3)	< 0.050 < 0.050 1.08 1.07 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0	0.050 mg/L 0.050 mg/L 0.050 mg/L 0.050 mg/L 1.0 mg/L	Prepared Prepared 1.00 Prepared 1.00 Prepared	: 2023-04-20 : 2023-04-20 : 2023-04-20 : 2023-04-21	, Analyzed 108 1, Analyzed 107 107	d: 2023-0 d: 2023-0 85-115 d: 2023-0 85-115	4-21 4-21 4-21 4-21		
General Parameters, In Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl Blank (B3D1816-BLK) Nitrogen, Total Kjeldahl LCS (B3D1816-BS1) Nitrogen, Total Kjeldahl LCS (B3D1816-BS2) Nitrogen, Total Kjeldahl CS (B3D1816-BS2) Nitrogen, Total Kjeldahl General Parameters, In Blank (B3D1911-BLK) Alkalinity, Total (as CaCC) Alkalinity, Phenolphthalei Alkalinity, Bicarbonate (as Alkalinity, Hydroxide (as Calcalinity, Hydroxide (as Calcalinity, Hydroxide (as Calcalinity, Total (as CaCC)	Batch B3D1911 I) I) I3) In (as CaCO3) CaCO3) CaCO3) CaCO3) CaCO3) CaCO3) CaCO3) Sociation (as CaCO3)	< 0.050 < 0.050 1.08 1.07 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0	0.050 mg/L 0.050 mg/L 0.050 mg/L 0.050 mg/L 1.0 mg/L 1.0 mg/L 1.0 mg/L 1.0 mg/L 1.0 mg/L	Prepared Prepared 1.00 Prepared 1.00 Prepared	: 2023-04-20 : 2023-04-20 : 2023-04-20 : 2023-04-21	, Analyzed 108 1, Analyzed 107 107	d: 2023-0 d: 2023-0 85-115 d: 2023-0 85-115	4-21 4-21 4-21 4-21		



REPORTED TO PROJECT	Prince George, City of Raw Water - PW 660	- Pump Station					WORK REPOR	ORDER TED	23D ² 2023	1953 -05-08	13:37
Analyte		Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameter	s, Batch B3D1911, Contin	ued									
LCS (B3D1911-BS	1)				Prepared	: 2023-04-2	1, Analyze	d: 2023-0	4-21		
Alkalinity, Total (as Ca	aCO3)	95.2	1.0	mg/L	100		95	80-120			
LCS (B3D1911-BS	2)				Prenared	l: 2023-04-2	1 Analyze	q. 5053 - 0	4-21		
Alkalinity, Total (as Ca	•	96.9	1.0	mg/L	100	. 2020 04 2	97	80-120	7 21		
Microbiological Pa	rameters, Batch B3D1600										
Blank (B3D1600-B	LK1)				Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total		< 1		CFU/100 mL							
E. coli		< 1	1	CFU/100 mL	-						
Blank (B3D1600-B	LK2)				Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total		< 1		CFU/100 mL							
E. coli		< 1	1	CFU/100 mL	-						
Blank (B3D1600-B	LK3)				Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total		< 1		CFU/100 ml							
E. coli		< 1	1	CFU/100 mL	-						
Blank (B3D1600-B	LK4)				Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total		< 1	1	CFU/100 mL	-						
E. coli		< 1	1	CFU/100 mL	_						
Blank (B3D1600-B	LK5)				Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total		< 1	1	CFU/100 mL	-						
E. coli		< 1	1	CFU/100 mL	-						
Blank (B3D1600-B	LK6)				Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total		< 1	1	CFU/100 mL	-						
E. coli		< 1	1	CFU/100 mL	-						
Blank (B3D1600-B	LK7)				Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total		< 1		CFU/100 ml							
E. coli		< 1	1	CFU/100 mL	-						
Blank (B3D1600-B	LK8)				Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total		< 1		CFU/100 mL							
E. coli		< 1	1	CFU/100 mL	-						
Blank (B3D1600-B	LK9)				Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total	•	< 1	1	CFU/100 mL	-		-				
E. coli		< 1	1	CFU/100 mL	-						
Blank (B3D1600-B	LKA)				Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total	•	< 1	1	CFU/100 mL							
E. coli		< 1		CFU/100 mL							
Blank (B3D1600-B	LKB)				Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total	•	< 1	1	CFU/100 mL							
E. coli		< 1		CFU/100 mL							
Blank (B3D1600-B	LKC)				Prepared	l: 2023-04-1	9, Analyze	d: 2023-0	4-19		
Coliforms, Total	,	< 1	1	CFU/100 mL			, ,==				
E. coli		< 1		CFU/100 mL							



REPORTED TO	Prince George, City of - Pump Station	WORK ORDER	23D1953
PROJECT	Raw Water - PW 660	REPORTED	2023-05-08 13:37

Analyte	Result	RL Units	Spike	Source	% REC	REC	% RPD RPD	Qualifier
			Level	Result	,,,,,,	Limit	Limit	

Microbiological Parameters, Batch B3D1689, Continued

Blank (B3D1689-BLK1)	_K1) Prepared: 2023-04-19, Analyzed: 2023-04-19	
Coliforms, Fecal	< 1	1 CFU/100 mL

Total Metals, Batch B3D2136

Blank (B3D2136-BLK1)			Prepared: 2023-04-24, Analyzed: 2023-04-24
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	
Beryllium, total	< 0.00010	0.00010 mg/L	
Bismuth, total	< 0.00010	0.00010 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	
Cobalt, total	< 0.00010	0.00010 mg/L	
Copper, total	< 0.00040	0.00040 mg/L	
lron, total	< 0.010	0.010 mg/L	
Lead, total	< 0.00020	0.00020 mg/L	
Lithium, total	< 0.00010	0.00010 mg/L	
Magnesium, total	< 0.010	0.010 mg/L	
Manganese, total	< 0.00020	0.00020 mg/L	
Molybdenum, total	< 0.00010	0.00010 mg/L	
Nickel, total	< 0.00040	0.00040 mg/L	
Phosphorus, total	< 0.050	0.050 mg/L	
Potassium, total	< 0.10	0.10 mg/L	
Selenium, total	< 0.00050	0.00050 mg/L	
Silicon, total	< 1.0	1.0 mg/L	
Silver, total	< 0.000050	0.000050 mg/L	
Sodium, total	< 0.10	0.10 mg/L	
Strontium, total	< 0.0010	0.0010 mg/L	
Sulfur, total	< 3.0	3.0 mg/L	
Tellurium, total	< 0.00050	0.00050 mg/L	
Thallium, total	< 0.000020	0.000020 mg/L	
Γhorium, total	< 0.00010	0.00010 mg/L	
Tin, total	< 0.00020	0.00020 mg/L	
Titanium, total	< 0.0050	0.0050 mg/L	
Tungsten, total	< 0.0010	0.0010 mg/L	
Jranium, total	< 0.000020	0.000020 mg/L	
√anadium, total	< 0.0050	0.0050 mg/L	
Zinc, total	< 0.0040	0.0040 mg/L	
Zirconium, total	< 0.00010	0.00010 mg/L	
LCS (B3D2136-BS1)			Prepared: 2023-04-24, Analyzed: 2023-04-25
Aluminum, total	4.06	0.0050 mg/L	4.00 101 80-120

LCS (B3D2136-BS1)	Prepared: 2023-04-24, Analyzed: 2023-04-25					
Aluminum, total	4.06	0.0050 mg/L	4.00	101	80-120	
Antimony, total	0.0397	0.00020 mg/L	0.0400	99	80-120	
Arsenic, total	0.407	0.00050 mg/L	0.400	102	80-120	
Barium, total	0.0398	0.0050 mg/L	0.0400	100	80-120	
Beryllium, total	0.0424	0.00010 mg/L	0.0400	106	80-120	
Bismuth, total	0.0381	0.00010 mg/L	0.0400	95	80-120	
Boron, total	0.425	0.0500 mg/L	0.400	106	80-120	
Cadmium, total	0.0396	0.000010 mg/L	0.0400	99	80-120	
Calcium, total	4.18	0.20 mg/L	4.00	105	80-120	
Chromium, total	0.0416	0.00050 mg/L	0.0400	104	80-120	
Cobalt, total	0.0411	0.00010 mg/L	0.0400	103	80-120	
Copper, total	0.0411	0.00040 mg/L	0.0400	103	80-120	



REPORTED TO PROJECT	Prince George, City of Raw Water - PW 660	•					WORK ORDER REPORTED		23D1953 2023-05-08 13:37		13:37
Analyte		Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualific
otal Metals, Batch	B3D2136, Continued										
LCS (B3D2136-BS1), Continued				Prepared:	2023-04-2	4, Analyze	d: 2023-0	4-25		
Iron, total	•	4.14	0.010	ma/l	4.00		104	80-120			
Lead, total		0.0393	0.00020		0.0400		98	80-120			
Lithium, total		0.0421	0.00010		0.0400		105	80-120			
Magnesium, total		4.16	0.010		4.00		104	80-120			
Manganese, total		0.0411	0.00020	mg/L	0.0400		103	80-120			
Molybdenum, total		0.0393	0.00010	mg/L	0.0400		98	80-120			
Nickel, total		0.0408	0.00040	mg/L	0.0400		102	80-120			
Phosphorus, total		4.02	0.050	mg/L	4.00		101	80-120			
Potassium, total		4.11	0.10		4.00		103	80-120			
Selenium, total		0.405	0.00050	mg/L	0.400		101	80-120			
Silicon, total		4.2	1.0	mg/L	4.00		105	80-120			
Silver, total		0.0408	0.000050	mg/L	0.0400		102	80-120			
Sodium, total		4.04	0.10	mg/L	4.00		101	80-120			
Strontium, total		0.0418	0.0010	mg/L	0.0400		105	80-120			
Sulfur, total		40.6	3.0	mg/L	40.0		102	80-120			
Tellurium, total		0.0387	0.00050	mg/L	0.0400		97	80-120			
Thallium, total		0.0390	0.000020	mg/L	0.0400		97	80-120			
Thorium, total		0.0390	0.00010	mg/L	0.0400		97	80-120			
Tin, total		0.0399	0.00020	mg/L	0.0400		100	80-120			
Titanium, total		0.0411	0.0050	mg/L	0.0400		103	80-120			
Tungsten, total		0.0401	0.0010	mg/L	0.0400		100	80-120			
Uranium, total		0.0402	0.000020	mg/L	0.0400		100	80-120			
Vanadium, total		0.0405	0.0050	mg/L	0.0400		101	80-120			
Zinc, total		0.401	0.0040	mg/L	0.400		100	80-120			
Zirconium, total		0.0411	0.00010	mg/L	0.0400		103	80-120			
Total Metals, Batch	B3D2142										
Blank (B3D2142-Bl	_K1)				Prepared:	2023-04-2	4, Analyze	d: 2023-0	4-24		
Mercury, total	<	0.000010	0.000010	mg/L							
Blank (B3D2142-Bl	_K2)				Prepared:	2023-04-2	4, Analyze	d: 2023-0	4-24		
Mercury, total	<	0.000010	0.000010	mg/L							
	1)				Prepared:	2023-04-2	4, Analyze	d: 2023-0	4-24		
LCS (B3D2142-BS1	! /										
•	<u>, </u>	0.000229	0.000010	mg/L	0.000250		92	80-120			
LCS (B3D2142-BS1 Mercury, total LCS (B3D2142-BS2	,	0.000229	0.000010	mg/L		2023-04-2			4-24		
Mercury, total LCS (B3D2142-BS2	2)	0.000229	0.000010			2023-04-2			4-24		
Mercury, total LCS (B3D2142-BS2 Mercury, total	2)	0.000263			Prepared:	2023-04-2	4, Analyze	d: 2023-0	4-24		
Mercury, total LCS (B3D2142-BS2 Mercury, total /olatile Organic Co.	mpounds (VOC), Batch E	0.000263			Prepared: 0.000250		4, Analyze 105	d: 2023-0 80-120			
Mercury, total LCS (B3D2142-BS2 Mercury, total /olatile Organic Co. Blank (B3D2098-Bl	mpounds (VOC), Batch E _K1)	0.000263 3 D2098	0.000010	mg/L	Prepared: 0.000250	2023-04-2	4, Analyze 105	d: 2023-0 80-120			
Mercury, total LCS (B3D2142-BS2 Mercury, total /olatile Organic Co Blank (B3D2098-BL Bromodichloromethan	mpounds (VOC), Batch E _K1)	0.000263 83D2098 < 0.0010	0.000010	mg/L	Prepared: 0.000250		4, Analyze 105	d: 2023-0 80-120			
Mercury, total LCS (B3D2142-BS2 Mercury, total /olatile Organic Co. Blank (B3D2098-Bl Bromodichloromethan Bromoform	mpounds (VOC), Batch E _K1)	0.000263 83D2098 < 0.0010 < 0.0010	0.000010 0.0010 0.0010	mg/L mg/L mg/L	Prepared: 0.000250		4, Analyze 105	d: 2023-0 80-120			
Mercury, total LCS (B3D2142-BS2 Mercury, total /olatile Organic Co Blank (B3D2098-Bl Bromodichloromethan Bromoform Chloroform	mpounds (VOC), Batch E _K1)	0.000263 83D2098 < 0.0010 < 0.0010 < 0.0010	0.000010 0.0010 0.0010 0.0010	mg/L mg/L mg/L mg/L	Prepared: 0.000250		4, Analyze 105	d: 2023-0 80-120			
Mercury, total LCS (B3D2142-BS2 Mercury, total /olatile Organic Co. Blank (B3D2098-Bl Bromodichloromethan Bromoform	mpounds (VOC), Batch E _K1) le	0.000263 83D2098 < 0.0010 < 0.0010	0.000010 0.0010 0.0010 0.0010 0.0010	mg/L mg/L mg/L mg/L	Prepared: 0.000250		4, Analyze 105	d: 2023-0 80-120			