

File No. 5700-ERK-04

July 4, 2022

Dear Sir/Madam:

RE: Erickson Water Service Water Quality

The Erickson Water service operates in compliance with safe drinking water legislation and continues to provide potable water to its customers.

Since 1929, the Erickson Water Service has drawn water from Arrow Creek authorized under water licenses issued from the Province of BC. Prior to serving Erickson and the Town of Creston customers, at the Arrow Creek Water Treatment Plant, the water is first processed with coarse screening, settling, fine screening, membrane ultrafiltration, UV disinfection, and residual chlorination. The filtration process on its own provides 4-log bacteria and virus removal. In addition, a System Control and Data Acquisition (SCADA) unit allows for remote plant monitoring and operation.

Certified water utility operators take weekly bacteriological samples from 5 separate sites located in the Erickson water service area. If any results show the presence of bacteria they are acted upon immediately in consultation and collaboration with Interior Health. Attached is the latest bacteriological sample May 30, 2022 test results. Attached also is the latest May 24, 2022, full comprehensive chemical and metal test results.

Should you require additional information, please do not hesitate to contact the undersigned.

Kind regards

Jason McDiarmid Utility Service Manager

JM/jm

cc: Allan Richardson, Utilities Supervisor – Erickson

Attch: Passmore Total Coliforms & E. coli Certificate of Analysis, May 30, 2022

Caro Analytical Services Certificate of Analysis, May 24, 2022



Report# 4657

Filename 220531EK.pdf

4240 Passmore Upper Road, Winlaw BC, V0G2J0 250-226-7339 test@passmorelaboratory.ca passmorelaboratory.ca

Client RDCK Erickson Water Service

Attention Al Richardson

	CERTIFICATE OF ANALYSIS	
<u>Analyses</u>	Method Description	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

Passmore Laboratory Ltd. complies with methods and certification through the Province of British Columbia Enhanced Water Quality Assurance (EWQA) Program and the Clinical Microbiology Proficiency Testing (CMPT) Program. Other analytical results on this report not listed above are not within the scope of the EWQA. Passmore Laboratory assumes no responsibility for any loss or damage resulting from error or omission in the conduct of testing. Liability is limited to the cost of the analysis.

Processed by: Mechelle Babic

Jennifer Yeow, Lab Manager Junifur Yeow

Please call or Email for with any questions, feedback, or more information

June 2, 2022 Page 1 of 3



Report# 4657

Filename 220531EK.pdf

			ANALYT	ICAL RESULTS	FileHame 220	
Sample ID Ericksor	n Office				Sample #	1
Date/Time Sampled	2022-05-30	8:15 AM	Matrix	TW	Temperature on Receipt	14
Date/Time on Test	2022-05-31	2:50 PM				
<u>Analyses</u>		Result		<u>Units</u>	<u>RDL</u>	
Coliforms, Total		less th	an 1	CFU/100mL	1	
Verified E.coli		less th	an 1	CFU/100mL	1	
Sample ID Ericksor	n Reservoir				Sample #	2
Date/Time Sampled	2022-05-30	8:35 AM	Matrix	TW	Temperature on Receipt	13
Date/Time on Test	2022-05-31	2:55 PM				
<u>Analyses</u>		Result		<u>Units</u>	<u>RDL</u>	
Coliforms, Total		less th	an 1	CFU/100mL	1	
Verified E.coli		less th	an 1	CFU/100mL	1	
Sample ID PRV 2					Sample #	3
Date/Time Sampled	2022-05-30	8:50 AM	Matrix	TW	Temperature on Receipt	14
Date/Time on Test	2022-05-31	3:00 PM				
<u>Analyses</u>		Result		<u>Units</u>	RDL	
Coliforms, Total		less th	an 1	CFU/100mL	1	
Verified E.coli		less th	an 1	CFU/100mL	1	
Sample ID PRV 3					Sample #	4
Date/Time Sampled	2022-05-30	8:55 AM	Matrix	TW	Temperature on Receipt	13
Date/Time on Test	2022-05-31	3:05 PM				
<u>Analyses</u>		Result		<u>Units</u>	RDL	
Coliforms, Total		less th	an 1	CFU/100mL	1	
Verified E.coli		less th	an 1	CFU/100mL	1	
Sample ID Ja-co Inc	dustries				Sample #	5
Date/Time Sampled	2022-05-30	10:20 AM	Matrix	TW	Temperature on Receipt	13
Date/Time on Test	2022-05-31	3:10 PM				
<u>Analyses</u>		Result		<u>Units</u>	RDL	
Coliforms, Total		less th	an 1	CFU/100mL	1	
Verified E.coli		less th	an 1	CFU/100mL	1	

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Report# 4657

Filename 220531EK.pdf

A	1 \/T		DEC	III TC
ANA	LYI	ICAL	. KES	ULTS

Sample ID 2737 Eri	ickson Rd			Sample #	6
Date/Time Sampled	2022-05-30	9:05 AM Matrix	ΓW	Temperature on Receipt	15
Date/Time on Test	2022-05-31	3:15 PM			
<u>Analyses</u>		<u>Result</u>	<u>Units</u>	RDL	
Coliforms, Total		less than 1	CFU/100mL	1	
Verified E.coli		less than 1	CFU/100mL	1	

Sample ID 2233 Co	nnel Rd			Sample #	7
Date/Time Sampled	2022-05-30	9:15 AM Matrix	ΓW	Temperature on Receipt	13
Date/Time on Test	2022-05-31	3:20 PM			
<u>Analyses</u>		<u>Result</u>	<u>Units</u>	RDL	
Coliforms, Total		less than 1	CFU/100mL	1	
Verified E.coli		less than 1	CFU/100mL	1	

Glossary of Terms

Less than 1 Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to

interferences, insufficient sample volume, or dilutions.

APHA American Pubic Health Association
CFU/100mL Colony Forming Units per 100 milliliters

Matrix SW = Surface water, TW = Treated water, DW= Distribution water, UGW = Untreated Ground water, RW = Raw water

RDL Reportable Detection Limit

References

June 2, 2022 Page 3 of 3





CERTIFICATE OF ANALYSIS

REPORTED TO Regional District of Central Kootenay - Nelson

Box 590 - 202 Lakeside Drive

Nelson, BC V1L 5R4

ATTENTION RDCK- Nelson

PO NUMBER RDCK- Nelson
PROJECT Analytical Testing

PROJECT INFO Arrow Intake

WORK ORDER 22E3635

RECEIVED / TEMP 2022-05-26 15:50 / 19.7°C

REPORTED 2022-06-06 14:50

COC NUMBER B37914

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



Ahead of the Curve



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.

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.

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 bwhitehead@caro.ca

Authorized By:

Brent Whitehead Account Manager M what



TEST RESULTS

REPORTED TO Regional District of Ce PROJECT Analytical Testing		ntral Kootenay - N		WORK ORDER REPORTED	22E3635 2022-06-06 14:50		
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
PRV 3 (22E3635-01	l) Matrix: Water Sam	pled: 2022-05-24	09:15				
Anions							
Chloride		2.50	AO ≤ 250	0.10	mg/L	2022-05-27	
Fluoride		< 0.10	MAC = 1.5		mg/L	2022-05-27	
Nitrate (as N)		< 0.010	MAC = 10	0.010		2022-05-27	
Nitrite (as N)		< 0.010	MAC = 1	0.010		2022-05-27	
Sulfate		2.1	AO ≤ 500		mg/L	2022-05-27	
Calculated Paramete	ers				-		
Total Trihalomethan	ies	0.0303	MAC = 0.1	0.00400	ma/l	N/A	
Hardness, Total (as		18.9	None Required	0.500		N/A	
Langelier Index	/	-2.5	N/A	-5.0		2022-06-03	
Solids, Total Dissolv	/ed	31.8	AO ≤ 500		mg/L	N/A	
General Parameters							
Alkalinity, Total (as	CaCO3)	29.0	N/A	1.0	mg/L	2022-05-31	
Alkalinity, Phenolph	· · · · · · · · · · · · · · · · · · ·	< 1.0	N/A		mg/L	2022-05-31	
Alkalinity, Pricrioiphi		29.0	N/A		mg/L	2022-05-31	
Alkalinity, Carbonate		< 1.0	N/A		mg/L	2022-05-31	
Alkalinity, Hydroxide		< 1.0	N/A		mg/L	2022-05-31	
Colour, True	(40 04000)	< 5.0	AO ≤ 15		CU	2022-05-27	
Conductivity (EC)		52.4	N/A		μS/cm	2022-05-31	
Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	<u>'</u>	2022-05-31	
pH		6.80	7.0-10.5		pH units	2022-05-31	HT2
Temperature, at pH		23.1	N/A		°C	2022-05-31	HT2
Turbidity		< 0.10	OG < 1	0.10	NTU	2022-05-27	HT1
Haloacetic Acids							
Monochloroacetic A	cid	< 0.0020	N/A	0.0020	ma/l	2022-06-02	
		< 0.0020	N/A	0.0020		2022-06-02	
Monobromoacetic A Dichloroacetic Acid	·····	0.0141	N/A	0.0020		2022-06-02	
Trichloroacetic Acid		0.0191	N/A	0.0020		2022-06-02	
Dibromoacetic Acid		< 0.0020	N/A	0.0020		2022-06-02	
Total Haloacetic Aci		0.0332	MAC = 0.08	0.00200		N/A	
Surrogate: 2-Bromo	,	101		70-130		2022-06-02	
Total Metals	<i>r</i> - <i>r</i>						
Aluminum, total		0.0097	OG < 0.1	0.0050	mg/L	2022-05-30	
Antimony, total		< 0.00020	MAC = 0.006	0.00020		2022-05-30	
Arsenic, total		< 0.00050	MAC = 0.01	0.00050		2022-05-30	
Barium, total		0.0109	MAC = 2	0.0050		2022-05-30	
Boron, total		< 0.0500	MAC = 5	0.0500		2022-05-30	
Cadmium, total		< 0.000010	MAC = 0.005	0.000010		2022-05-30	
Calcium, total		5.14	None Required		mg/L	2022-05-30	
Chromium, total		< 0.00050	MAC = 0.05	0.00050		2022-05-30	
Cobalt, total		< 0.00010	N/A	0.00010		2022-05-30	



TEST RESULTS

REPORTED TO Regional District of Ce PROJECT Analytical Testing	entral Kootenay - N	elson		WORK ORDER REPORTED	22E3635 2022-06-06 14:50	
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
PRV 3 (22E3635-01) Matrix: Water Sar	npled: 2022-05-24	09:15, Continued				
Total Metals, Continued						
Copper, total	0.00184	MAC = 2	0.00040	mg/L	2022-05-30	
Iron, total	0.017	AO ≤ 0.3	0.010	mg/L	2022-05-30	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2022-05-30	
Magnesium, total	1.47	None Required	0.010	mg/L	2022-05-30	
Manganese, total	0.00072	MAC = 0.12	0.00020	mg/L	2022-05-30	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2022-06-01	
Molybdenum, total	< 0.00010	N/A	0.00010	mg/L	2022-05-30	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2022-05-30	
Potassium, total	0.25	N/A	0.10	mg/L	2022-05-30	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-05-30	
Sodium, total	2.71	AO ≤ 200	0.10	mg/L	2022-05-30	
Strontium, total	0.0169	MAC = 7	0.0010	mg/L	2022-05-30	
Uranium, total	0.000035	MAC = 0.02	0.000020	mg/L	2022-05-30	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2022-05-30	
Volatile Organic Compounds (VOC) Bromodichloromethane	< 0.0010	N/A	0.0010	ma/l	2022-05-30	
Bromoform	< 0.0010	N/A	0.0010		2022-05-30	
Chloroform	0.0303	N/A	0.0010		2022-05-30	
Dibromochloromethane	< 0.0010	N/A	0.0010		2022-05-30	
Surrogate: Toluene-d8	102	IN//A	70-130	%	2022-05-30	
Surrogate: 4-Bromofluorobenzene	104		70-130		2022-05-30	
Arrow Intake (Raw) (22E3635-02) Matri	x: Water Sampled	d: 2022-05-24 10:00				
Anions						
		40 4050	0.40		0000 05 07	
Chloride	0.10	AO ≤ 250		mg/L	2022-05-27	
Chloride Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2022-05-27	
Chloride Fluoride Nitrate (as N)	< 0.10 < 0.010	MAC = 1.5 MAC = 10	0.10 0.010	mg/L mg/L	2022-05-27 2022-05-27	
Chloride Fluoride Nitrate (as N) Nitrite (as N)	< 0.10 < 0.010 < 0.010	MAC = 1.5 MAC = 10 MAC = 1	0.10 0.010 0.010	mg/L mg/L mg/L	2022-05-27 2022-05-27 2022-05-27	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	< 0.10 < 0.010	MAC = 1.5 MAC = 10	0.10 0.010 0.010	mg/L mg/L	2022-05-27 2022-05-27	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters	< 0.10 < 0.010 < 0.010 2.1	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500	0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2022-05-27 2022-05-27 2022-05-27 2022-05-27	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3)	< 0.10 < 0.010 < 0.010 2.1	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required	0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2022-05-27 2022-05-27 2022-05-27 2022-05-27 N/A	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index	< 0.10 < 0.010 < 0.010 2.1 18.4 -2.7	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A	0.10 0.010 0.010 1.0 0.500	mg/L mg/L mg/L mg/L mg/L	2022-05-27 2022-05-27 2022-05-27 2022-05-27 N/A 2022-06-03	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3)	< 0.10 < 0.010 < 0.010 2.1	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required	0.10 0.010 0.010 1.0 0.500	mg/L mg/L mg/L mg/L	2022-05-27 2022-05-27 2022-05-27 2022-05-27 N/A	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	< 0.10 < 0.010 < 0.010 2.1 18.4 -2.7	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A	0.10 0.010 0.010 1.0 0.500	mg/L mg/L mg/L mg/L mg/L	2022-05-27 2022-05-27 2022-05-27 2022-05-27 N/A 2022-06-03	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	< 0.10 < 0.010 < 0.010 2.1 18.4 -2.7	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A	0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L	2022-05-27 2022-05-27 2022-05-27 2022-05-27 N/A 2022-06-03	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters	< 0.10 < 0.010 < 0.010 < 0.010 2.1 18.4 -2.7 24.9	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500	0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L	2022-05-27 2022-05-27 2022-05-27 2022-05-27 N/A 2022-06-03 N/A	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3)	< 0.10 < 0.010 < 0.010 < 0.010 2.1 18.4 -2.7 24.9	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500	0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L mg/L	2022-05-27 2022-05-27 2022-05-27 2022-05-27 N/A 2022-06-03 N/A	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3)	< 0.10 < 0.010 < 0.010 < 0.010 2.1 18.4 -2.7 24.9 25.0 < 1.0	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500 N/A N/A	0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2022-05-27 2022-05-27 2022-05-27 2022-05-27 N/A 2022-06-03 N/A 2022-05-31 2022-05-31	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3) Alkalinity, Bicarbonate (as CaCO3)	< 0.10 < 0.010 < 0.010 < 0.010 2.1 18.4 -2.7 24.9 25.0 < 1.0 25.0	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500 N/A N/A N/A N/A	0.10 0.010 1.0 0.500 -5.0 1.00 1.0 1.0 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2022-05-27 2022-05-27 2022-05-27 2022-05-27 N/A 2022-06-03 N/A 2022-05-31 2022-05-31	



TEST RESULTS

REPORTED TO Regional District of Central Kootenay - Nelson

PROJECT Analytical Testing

WORK ORDER REPORTED 22E3635

2022-06-06 14:50

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Arrow Intake (Raw) (22E3635-02) I	Matrix: Water Sample	d: 2022-05-24 10:00	, Continued			
General Parameters, Continued						
Conductivity (EC)	41.7	N/A	2.0	μS/cm	2022-05-31	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2022-05-31	
pH	6.58	7.0-10.5	0.10	pH units	2022-05-31	HT2
Temperature, at pH	23.2	N/A		°C	2022-05-31	HT2
Turbidity	0.50	OG < 1	0.10	NTU	2022-05-27	HT1
Total Metals						
Aluminum, total	0.0193	OG < 0.1	0.0050	mg/L	2022-05-30	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2022-05-30	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2022-05-30	
Barium, total	0.0100	MAC = 2	0.0050	mg/L	2022-05-30	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2022-05-30	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2022-05-30	
Calcium, total	5.01	None Required	0.20	mg/L	2022-05-30	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-05-30	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2022-05-30	
Copper, total	0.00084	MAC = 2	0.00040	mg/L	2022-05-30	
Iron, total	0.015	AO ≤ 0.3	0.010	mg/L	2022-05-30	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2022-05-30	
Magnesium, total	1.42	None Required	0.010	mg/L	2022-05-30	
Manganese, total	0.00071	MAC = 0.12	0.00020	mg/L	2022-05-30	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2022-06-01	
Molybdenum, total	< 0.00010	N/A	0.00010	mg/L	2022-05-30	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2022-05-30	
Potassium, total	0.24	N/A	0.10	mg/L	2022-05-30	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-05-30	
Sodium, total	0.86	AO ≤ 200	0.10	mg/L	2022-05-30	
Strontium, total	0.0158	MAC = 7	0.0010	mg/L	2022-05-30	
Uranium, total	0.000041	MAC = 0.02	0.000020	mg/L	2022-05-30	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2022-05-30	

Sample Qualifiers:

HT1 The sample was prepared and/or analyzed past the recommended holding time.

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



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Regional District of Central Kootenay - Nelson

PROJECT Analytical Testing

WORK ORDER REPORTED 22E3635

ORTED 2022-06-06 14:50

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2017)	Titration with H2SO4	✓	Kelowna
Anions in Water	SM 4110 B (2017)	Ion Chromatography	✓	Kelowna
Colour, True in Water	SM 2120 C (2017)	Spectrophotometry (456 nm)	✓	Kelowna
Conductivity in Water	SM 2510 B (2017)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Hardness in Water	SM 2340 B* (2017)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2017)	Calculation		N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2017)	Electrometry	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2017)	SM 1030 E (2011)		N/A
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
Turbidity in Water	SM 2130 B (2017)	Nephelometry	✓	Kelowna

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

Glossary of Terms:

RL Reporting Limit (default)

Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors

°C Degrees Celcius AO Aesthetic Objective

CU Colour Units (referenced against a platinum cobalt standard)

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

 $\begin{array}{lll} \text{NTU} & \text{Nephelometric Turbidity Units} \\ \text{OG} & \text{Operational Guideline (treated water)} \\ \text{pH units} & \text{pH < 7 = acidic, ph > 7 = basic} \\ \text{\mu S/cm} & \text{Microsiemens per centimetre} \\ \text{ASTM} & \text{ASTM International Test Methods} \\ \end{array}$

EPA United States Environmental Protection Agency Test Methods

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



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Regional District of Central Kootenay - Nelson

PROJECT Analytical Testing

WORK ORDER REPORTED 22E3635

2022-06-06 14:50

General Comments:

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