CERTIFICATE OF ANALYSIS

REPORTED TO	Elk River Alliance PO Box 2095, 1111 2nd Ave Fernie, BC V0B1M0		
ATTENTION	Kaileigh McCallum	**WORK ORDER**	22K3344
PO NUMBER		**RECEIVED / TEMP**	2022-11-29 13:25 / 2.0°C
PROJECT	CBWM-2022	**REPORTED**	2022-12-06 16:40
PROJECT INFO	[info]	**COC NUMBER**	B90466

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

You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry

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

Ahead of the Curve

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

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 TeamCaro@caro.ca

Authorized By:

Team CARO
Client Service Representative

CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO	Elk River Alliance	**WORK ORDER**	22K3344
PROJECT	CBWM-2022	**REPORTED**	2022-12-06 16:40

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
SF5001 - 20221128_1145 (22K3344-01) | Matrix: Water | Sampled: 2022-11-28 11:45						
Anions						
Chloride	**0.20**	AO ≤ 250	0.10	mg/L	2022-11-30	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2022-11-30	
Nitrate (as N)	**0.044**	MAC = 10	0.010	mg/L	2022-11-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2022-11-30	
Sulfate	**5.6**	AO ≤ 500	1.0	mg/L	2022-11-30	
Calculated Parameters						
Hardness, Total (as CaCO3)	**193**	None Required	0.500	mg/L	N/A	
Langelier Index	**0.4**	N/A	-5.0		2022-12-06	CT6
Nitrogen, Organic	< 0.0500	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolved	**188**	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	**186**	N/A	1.0	mg/L	2022-12-01	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-12-01	
Alkalinity, Bicarbonate (as CaCO3)	**186**	N/A	1.0	mg/L	2022-12-01	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-12-01	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-12-01	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2022-12-06	
Carbon, Total Organic	< 0.50	N/A	0.50	mg/L	2022-11-30	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2022-12-02	HT1
Conductivity (EC)	**339**	N/A	2.0	µS/cm	2022-12-01	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2022-11-30	
Nitrogen, Total Kjeldahl	< 0.050	N/A	0.050	mg/L	2022-12-02	
pH	**7.95**	7.0-10.5	0.10	pH units	2022-12-01	HT2
Phosphorus, Total (as P)	**0.0075**	N/A	0.0050	mg/L	2022-12-02	
Temperature, at pH	**20.7**	N/A		°C	2022-12-01	HT2
Turbidity	**0.62**	OG < 1	0.10	NTU	2022-11-30	
UV Transmittance @ 254 nm - Unfiltered	**98.6**	N/A	0.10	% T	2022-11-30	
Microbiological Parameters						
Coliforms, Total	**2**	MAC = 0	1	CFU/100 mL	2022-11-29	
Background Colonies	**2**	N/A	1	CFU/100 mL	2022-11-29	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-11-29	
Total Metals						
Aluminum, total	**0.0055**	OG < 0.1	0.0050	mg/L	2022-12-03	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2022-12-03	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2022-12-03	
Barium, total	**0.0321**	MAC = 2	0.0050	mg/L	2022-12-03	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2022-12-03	
Cadmium, total	**0.000036**	MAC = 0.005	0.000010	mg/L	2022-12-03	
Calcium, total	**53.9**	None Required	0.20	mg/L	2022-12-03	
Chromium, total	**0.00103**	MAC = 0.05	0.00050	mg/L	2022-12-03	

TEST RESULTS

REPORTED TO	Elk River Alliance	**WORK ORDER**	22K3344
PROJECT	CBWM-2022	**REPORTED**	2022-12-06 16:40

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
SF5001 - 20221128_1145 (22K3344-01) | Matrix: Water | Sampled: 2022-11-28 11:45, Continued						
Total Metals, Continued						
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2022-12-03	
Copper, total	< 0.00040	MAC = 2	0.00040	mg/L	2022-12-03	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2022-12-03	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2022-12-03	
Magnesium, total	**14.0**	None Required	0.010	mg/L	2022-12-03	
Manganese, total	**0.00028**	MAC = 0.12	0.00020	mg/L	2022-12-03	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2022-12-05	
Molybdenum, total	**0.00086**	N/A	0.00010	mg/L	2022-12-03	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2022-12-03	
Potassium, total	**0.19**	N/A	0.10	mg/L	2022-12-03	
Selenium, total	**0.00070**	MAC = 0.05	0.00050	mg/L	2022-12-03	
Sodium, total	**0.54**	AO ≤ 200	0.10	mg/L	2022-12-03	
Strontium, total	**0.0548**	MAC = 7	0.0010	mg/L	2022-12-03	
Uranium, total	**0.000548**	MAC = 0.02	0.000020	mg/L	2022-12-03	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2022-12-03	

Sample Qualifiers:

CT6	Results were based on lab temperature & lab pH.
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	Elk River Alliance	**WORK ORDER**	22K3344
PROJECT	CBWM-2022	**REPORTED**	2022-12-06 16:40

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2017)	Titration with H2SO4	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH3 G* (2017)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2017)	Ion Chromatography	✓	Kelowna
Carbon, Total Organic in Water	SM 5310 B (2017)	Combustion, Infrared CO2 Detection	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	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
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
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
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2017)	Block Digestion and Flow Injection Analysis	✓	Kelowna
pH in Water	SM 4500-H+ B (2017)	Electrometry	✓	Kelowna
Phosphorus, Total in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2017)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	✓	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
Transmittance at 254 nm - Unfiltered in Water	SM 5910 B* (2017)	Ultraviolet Absorption	✓	Kelowna
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)
% T	Percent Transmittance
<	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
CFU/100 mL	Colony Forming Units per 100 millilitres
CU	Colour Units (referenced against a platinum cobalt standard)
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
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

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Elk River Alliance	**WORK ORDER**	22K3344
PROJECT	CBWM-2022	**REPORTED**	2022-12-06 16:40

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. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing.

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 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:TeamCaro@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.

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Elk River Alliance	**WORK ORDER**	22K3344
PROJECT	CBWM-2022	**REPORTED**	2022-12-06 16:40

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 B2K3330										
Blank (B2K3330-BLK1)				Prepared: 2022-11-30, Analyzed: 2022-11-30						
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	< 0.5	0.5	mg/L							
LCS (B2K3330-BS1)				Prepared: 2022-11-30, Analyzed: 2022-11-30						
Chloride	16.0	0.10	mg/L	16.0		100	90-110			
Fluoride	4.19	0.10	mg/L	4.00		105	88-108			
Nitrate (as N)	4.14	0.010	mg/L	4.00		104	90-110			
Nitrite (as N)	1.97	0.010	mg/L	2.00		99	85-115			
Sulfate	15.8	0.5	mg/L	16.0		99	90-110			
General Parameters, Batch B2K2946										
Blank (B2K2946-BLK1)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Carbon, Total Organic	< 0.50	0.50	mg/L							
Blank (B2K2946-BLK2)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Carbon, Total Organic	< 0.50	0.50	mg/L							
Blank (B2K2946-BLK3)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Carbon, Total Organic	< 0.50	0.50	mg/L							
Blank (B2K2946-BLK4)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Carbon, Total Organic	< 0.50	0.50	mg/L							
LCS (B2K2946-BS1)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Carbon, Total Organic	10.1	0.50	mg/L	10.0		101	78-116			
LCS (B2K2946-BS2)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Carbon, Total Organic	9.19	0.50	mg/L	10.0		92	78-116			
LCS (B2K2946-BS3)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Carbon, Total Organic	9.51	0.50	mg/L	10.0		95	78-116			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Elk River Alliance	**WORK ORDER**	22K3344
PROJECT	CBWM-2022	**REPORTED**	2022-12-06 16:40

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B2K2946, Continued										
LCS (B2K2946-BS4)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Carbon, Total Organic	9.40	0.50	mg/L	10.0		94	78-116			
General Parameters, Batch B2K3360										
Blank (B2K3360-BLK1)				Prepared: 2022-11-30, Analyzed: 2022-11-30						
Cyanide, Total	< 0.0020	0.0020	mg/L							
LCS (B2K3360-BS1)				Prepared: 2022-11-30, Analyzed: 2022-11-30						
Cyanide, Total	0.0195	0.0020	mg/L	0.0200		97	82-120			
LCS Dup (B2K3360-BSD1)				Prepared: 2022-11-30, Analyzed: 2022-11-30						
Cyanide, Total	0.0206	0.0020	mg/L	0.0200		103	82-120	6	10	
General Parameters, Batch B2K3368										
LCS (B2K3368-BS1)				Prepared: 2022-11-30, Analyzed: 2022-11-30						
UV Transmittance @ 254 nm - Unfiltered	35.9	0.10	% T	34.9		103	95-105			
General Parameters, Batch B2K3369										
Blank (B2K3369-BLK1)				Prepared: 2022-11-30, Analyzed: 2022-11-30						
Turbidity	< 0.10	0.10	NTU							
Blank (B2K3369-BLK2)				Prepared: 2022-11-30, Analyzed: 2022-11-30						
Turbidity	< 0.10	0.10	NTU							
LCS (B2K3369-BS1)				Prepared: 2022-11-30, Analyzed: 2022-11-30						
Turbidity	15.5	0.10	NTU	14.6		106	90-110			
LCS (B2K3369-BS2)				Prepared: 2022-11-30, Analyzed: 2022-11-30						
Turbidity	15.4	0.10	NTU	14.6		105	90-110			
General Parameters, Batch B2L0012										
Blank (B2L0012-BLK1)				Prepared: 2022-12-01, Analyzed: 2022-12-01						
Alkalinity, Total (as CaCO3)	< 1.0	1.0	mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0	mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1.0	1.0	mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0	mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L							
Conductivity (EC)	< 2.0	2.0	µS/cm							
Temperature, at pH	20.2		°C							
Blank (B2L0012-BLK2)				Prepared: 2022-12-01, Analyzed: 2022-12-01						
Alkalinity, Total (as CaCO3)	< 1.0	1.0	mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0	mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1.0	1.0	mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0	mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L							
Conductivity (EC)	< 2.0	2.0	µS/cm							
Temperature, at pH	20.1		°C							
LCS (B2L0012-BS1)				Prepared: 2022-12-01, Analyzed: 2022-12-01						
Alkalinity, Total (as CaCO3)	103	1.0	mg/L	100		103	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Elk River Alliance	**WORK ORDER**	22K3344
PROJECT	CBWM-2022	**REPORTED**	2022-12-06 16:40

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B2L0012, Continued										
LCS (B2L0012-BS2)				Prepared: 2022-12-01, Analyzed: 2022-12-01						
Alkalinity, Total (as CaCO3)	110	1.0	mg/L	100		110	80-120			
LCS (B2L0012-BS3)				Prepared: 2022-12-01, Analyzed: 2022-12-01						
Conductivity (EC)	1410	2.0	µS/cm	1410		100	95-105			
LCS (B2L0012-BS4)				Prepared: 2022-12-01, Analyzed: 2022-12-01						
Conductivity (EC)	1410	2.0	µS/cm	1410		100	95-105			
Reference (B2L0012-SRM1)				Prepared: 2022-12-01, Analyzed: 2022-12-01						
pH	7.01	0.10	pH units	7.01		100	98-102			
Reference (B2L0012-SRM2)				Prepared: 2022-12-01, Analyzed: 2022-12-01						
pH	7.01	0.10	pH units	7.01		100	98-102			
General Parameters, Batch B2L0022										
Blank (B2L0022-BLK1)				Prepared: 2022-12-02, Analyzed: 2022-12-02						
Colour, True	< 5.0	5.0	CU							
LCS (B2L0022-BS1)				Prepared: 2022-12-02, Analyzed: 2022-12-02						
Colour, True	21	5.0	CU	20.0		106	85-115			
General Parameters, Batch B2L0052										
Blank (B2L0052-BLK1)				Prepared: 2022-12-01, Analyzed: 2022-12-02						
Nitrogen, Total Kjeldahl	< 0.050	0.050	mg/L							
Blank (B2L0052-BLK2)				Prepared: 2022-12-01, Analyzed: 2022-12-02						
Nitrogen, Total Kjeldahl	< 0.050	0.050	mg/L							
LCS (B2L0052-BS1)				Prepared: 2022-12-01, Analyzed: 2022-12-02						
Nitrogen, Total Kjeldahl	0.980	0.050	mg/L	1.00		98	85-115			
LCS (B2L0052-BS2)				Prepared: 2022-12-01, Analyzed: 2022-12-02						
Nitrogen, Total Kjeldahl	0.979	0.050	mg/L	1.00		98	85-115			
General Parameters, Batch B2L0143										
Blank (B2L0143-BLK2)				Prepared: 2022-12-02, Analyzed: 2022-12-02						
Phosphorus, Total (as P)	< 0.0050	0.0050	mg/L							
Blank (B2L0143-BLK3)				Prepared: 2022-12-02, Analyzed: 2022-12-02						
Phosphorus, Total (as P)	< 0.0050	0.0050	mg/L							
LCS (B2L0143-BS2)				Prepared: 2022-12-02, Analyzed: 2022-12-02						
Phosphorus, Total (as P)	0.106	0.0050	mg/L	0.100		106	85-115			
LCS (B2L0143-BS3)				Prepared: 2022-12-02, Analyzed: 2022-12-02						
Phosphorus, Total (as P)	0.106	0.0050	mg/L	0.100		106	85-115			
General Parameters, Batch B2L0495										
Blank (B2L0495-BLK1)				Prepared: 2022-12-06, Analyzed: 2022-12-06						
Ammonia, Total (as N)	0.041	0.020	mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Elk River Alliance	**WORK ORDER**	22K3344
PROJECT	CBWM-2022	**REPORTED**	2022-12-06 16:40

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B2L0495, Continued										
Blank (B2L0495-BLK2)				Prepared: 2022-12-06, Analyzed: 2022-12-06						
Ammonia, Total (as N)	< 0.020	0.020	mg/L							
LCS (B2L0495-BS2)				Prepared: 2022-12-06, Analyzed: 2022-12-06						
Ammonia, Total (as N)	1.02	0.020	mg/L	1.00		102	90-115			
Microbiological Parameters, Batch B2K3231										
Blank (B2K3231-BLK1)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B2K3231-BLK2)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B2K3231-BLK3)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B2K3231-BLK4)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B2K3231-BLK5)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B2K3231-BLK6)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B2K3231-BLK7)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B2K3231-BLK8)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B2K3231-BLK9)				Prepared: 2022-11-29, Analyzed: 2022-11-29						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Total Metals, Batch B2L0242										
Blank (B2L0242-BLK1)				Prepared: 2022-12-02, Analyzed: 2022-12-03						
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							
Cobalt, total	< 0.00010	0.00010	mg/L							
Copper, total	< 0.00040	0.00040	mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Elk River Alliance	**WORK ORDER**	22K3344
PROJECT	CBWM-2022	**REPORTED**	2022-12-06 16:40

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B2L0242, Continued										
Blank (B2L0242-BLK1), Continued				Prepared: 2022-12-02, Analyzed: 2022-12-03						
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							
Molybdenum, total	< 0.00010	0.00010	mg/L							
Nickel, total	< 0.00040	0.00040	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 (B2L0242-BS1)				Prepared: 2022-12-02, Analyzed: 2022-12-03						
Aluminum, total	3.94	0.0050	mg/L	4.00		98	80-120			
Antimony, total	0.0399	0.00020	mg/L	0.0400		100	80-120			
Arsenic, total	0.0403	0.00050	mg/L	0.0400		101	80-120			
Barium, total	0.0395	0.0050	mg/L	0.0400		99	80-120			
Boron, total	< 0.0500	0.0500	mg/L	0.0400		107	80-120			
Cadmium, total	0.0400	0.000010	mg/L	0.0400		100	80-120			
Calcium, total	3.97	0.20	mg/L	4.00		99	80-120			
Chromium, total	0.0399	0.00050	mg/L	0.0400		100	80-120			
Cobalt, total	0.0392	0.00010	mg/L	0.0400		98	80-120			
Copper, total	0.0389	0.00040	mg/L	0.0400		97	80-120			
Iron, total	3.97	0.010	mg/L	4.00		99	80-120			
Lead, total	0.0392	0.00020	mg/L	0.0400		98	80-120			
Magnesium, total	3.97	0.010	mg/L	4.00		99	80-120			
Manganese, total	0.0400	0.00020	mg/L	0.0400		100	80-120			
Molybdenum, total	0.0394	0.00010	mg/L	0.0400		99	80-120			
Nickel, total	0.0397	0.00040	mg/L	0.0400		99	80-120			
Potassium, total	3.96	0.10	mg/L	4.00		99	80-120			
Selenium, total	0.0390	0.00050	mg/L	0.0400		97	80-120			
Sodium, total	3.96	0.10	mg/L	4.00		99	80-120			
Strontium, total	0.0406	0.0010	mg/L	0.0400		102	80-120			
Uranium, total	0.0394	0.000020	mg/L	0.0400		98	80-120			
Zinc, total	0.0395	0.0040	mg/L	0.0400		99	80-120			
Total Metals, Batch B2L0392										
Blank (B2L0392-BLK1)				Prepared: 2022-12-05, Analyzed: 2022-12-05						
Mercury, total	< 0.000010	0.000010	mg/L							
LCS (B2L0392-BS1)				Prepared: 2022-12-05, Analyzed: 2022-12-05						
Mercury, total	0.000485	0.000010	mg/L	0.000500		97	80-120			