

CERTIFICATE OF ANALYSIS

REPORTED TO	Salmo, Village of Box 1000 Salmo, BC V0G 1Z0	WORK ORDER	24L2100
ATTENTION	Fred Paton	RECEIVED / TEMP REPORTED	2024-12-18 09:37 / 6.3°C 2024-12-27 09:29
PO NUMBER		COC NUMBER	No Number
PROJECT	Essential Drinking Water Test Kit		
PROJECT INFO			

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.

Work Order Comments:

Custody Seals Intact: -

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

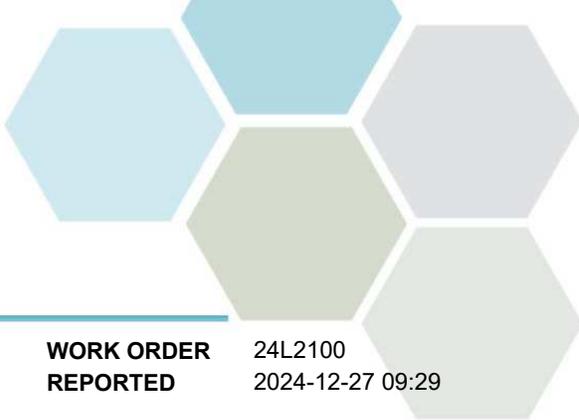
If you have any questions or concerns, please contact me at TeamCaro@caro.ca

Authorized By:

Team CARO
Client Service Representative

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TEST RESULTS

REPORTED TO PROJECT Salmo, Village of
Essential Drinking Water Test Kit

WORK ORDER REPORTED 24L2100
2024-12-27 09:29

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
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Village Of Salmo Public Works Shop (24L2100-01) | Matrix: Water | Sampled: 2024-12-17 10:00

Anions

Chloride	2.87	AO ≤ 250	0.10 mg/L	2024-12-19	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2024-12-19	
Nitrate (as N)	0.142	MAC = 10	0.010 mg/L	2024-12-19	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2024-12-19	
Sulfate	11.7	AO ≤ 500	1.0 mg/L	2024-12-19	

Calculated Parameters

Hardness, Total (as CaCO3)	91.8	None Required	0.500 mg/L	N/A	
Solids, Total Dissolved	102	AO ≤ 500	1.00 mg/L	N/A	

General Parameters

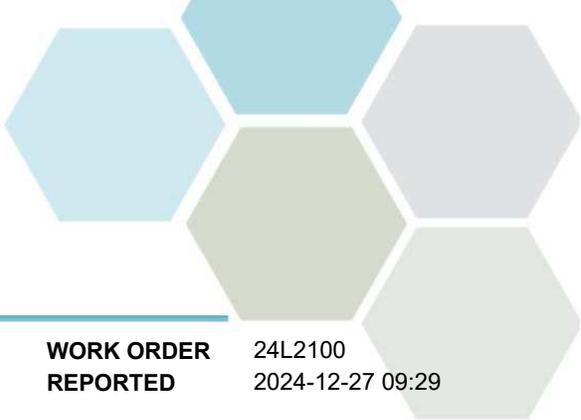
Alkalinity, Total (as CaCO3)	77.8	N/A	1.0 mg/L	2024-12-19	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0 mg/L	2024-12-19	
Alkalinity, Bicarbonate (as CaCO3)	77.8	N/A	1.0 mg/L	2024-12-19	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0 mg/L	2024-12-19	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0 mg/L	2024-12-19	
Conductivity (EC)	200	N/A	2.0 µS/cm	2024-12-19	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2024-12-20	
pH	7.66	7.0-10.5	0.10 pH units	2024-12-19	HT2
Turbidity	0.11	OG < 1	0.10 NTU	2024-12-19	

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2024-12-18	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2024-12-18	

Total Metals

Aluminum, total	< 0.0050	OG < 0.1	0.0050 mg/L	2024-12-20	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2024-12-20	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050 mg/L	2024-12-20	
Barium, total	0.0217	MAC = 2	0.0050 mg/L	2024-12-20	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2024-12-20	
Cadmium, total	0.000018	MAC = 0.007	0.000010 mg/L	2024-12-20	
Calcium, total	31.4	None Required	0.20 mg/L	2024-12-20	
Chromium, total	0.00095	MAC = 0.05	0.00050 mg/L	2024-12-20	
Copper, total	0.0399	MAC = 2	0.00040 mg/L	2024-12-20	
Iron, total	< 0.010	AO ≤ 0.3	0.010 mg/L	2024-12-20	
Lead, total	0.00029	MAC = 0.005	0.00020 mg/L	2024-12-20	
Magnesium, total	3.25	None Required	0.010 mg/L	2024-12-20	
Manganese, total	0.00024	MAC = 0.12	0.00020 mg/L	2024-12-20	
Potassium, total	1.37	N/A	0.10 mg/L	2024-12-20	
Selenium, total	0.00065	MAC = 0.05	0.00050 mg/L	2024-12-20	
Sodium, total	2.85	AO ≤ 200	0.10 mg/L	2024-12-20	
Strontium, total	0.150	MAC = 7	0.0010 mg/L	2024-12-20	
Uranium, total	0.000882	MAC = 0.02	0.000020 mg/L	2024-12-20	



TEST RESULTS

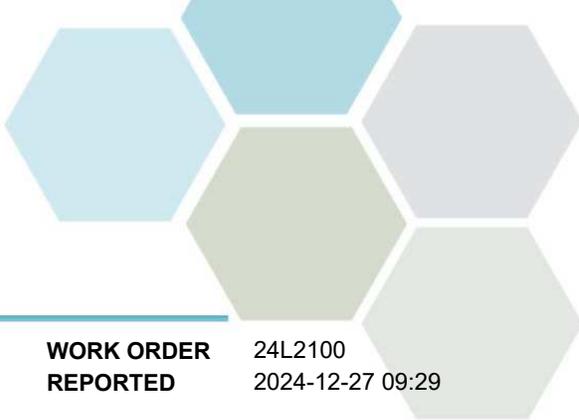
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Village Of Salmo Public Works Shop (24L2100-01) Matrix: Water Sampled: 2024-12-17 10:00, Continued						
<i>Total Metals, Continued</i>						
Zinc, total	0.0069	AO ≤ 5	0.0040	mg/L	2024-12-20	

Sample Qualifiers:

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



APPENDIX 1: SUPPORTING INFORMATION

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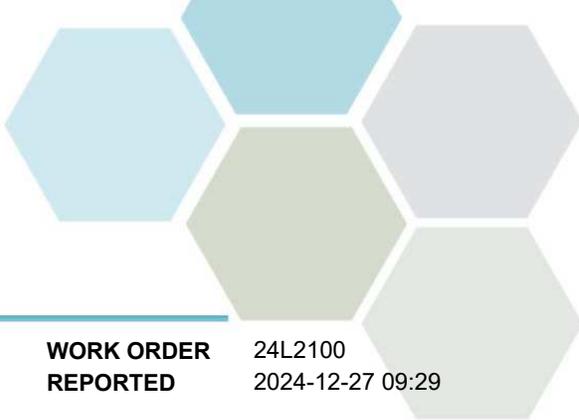
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Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	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
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Turbidity in Water	SM 2130 B (2020)	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
AO	Aesthetic Objective
CFU/100 mL	Colony Forming Units per 100 millilitres
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

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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 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

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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
Anions, Batch B4L3099									
Blank (B4L3099-BLK1)			Prepared: 2024-12-19, Analyzed: 2024-12-19						
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 (B4L3099-BS1)			Prepared: 2024-12-19, Analyzed: 2024-12-19						
Chloride	15.8	0.10 mg/L	16.0		99	90-110			
Fluoride	3.96	0.10 mg/L	4.00		99	88-108			
Nitrate (as N)	4.08	0.010 mg/L	4.00		102	90-110			
Nitrite (as N)	2.05	0.010 mg/L	2.00		103	85-115			
Sulfate	16.0	1.0 mg/L	16.0		100	90-110			
Duplicate (B4L3099-DUP1)			Source: 24L2100-01		Prepared: 2024-12-19, Analyzed: 2024-12-19				
Chloride	2.81	0.10 mg/L		2.87			2		10
Fluoride	< 0.10	0.10 mg/L		< 0.10					10
Nitrate (as N)	0.146	0.010 mg/L		0.142			3		10
Nitrite (as N)	< 0.010	0.010 mg/L		< 0.010					15
Sulfate	12.3	1.0 mg/L		11.7			5		10
Matrix Spike (B4L3099-MS1)			Source: 24L2100-01		Prepared: 2024-12-19, Analyzed: 2024-12-19				
Chloride	19.5	0.10 mg/L	16.0	2.87	104	75-125			
Fluoride	4.06	0.10 mg/L	4.00	< 0.10	101	75-125			
Nitrate (as N)	4.10	0.010 mg/L	4.00	0.142	99	75-125			
Nitrite (as N)	1.96	0.010 mg/L	2.00	< 0.010	98	75-115			
Sulfate	28.1	1.0 mg/L	16.0	11.7	102	75-125			

General Parameters, Batch B4L3186

Blank (B4L3186-BLK1)			Prepared: 2024-12-19, Analyzed: 2024-12-19						
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							



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WORK ORDER REPORTED 24L2100
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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 B4L3186, Continued

Blank (B4L3186-BLK2)

Prepared: 2024-12-19, Analyzed: 2024-12-19

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							

LCS (B4L3186-BS1)

Prepared: 2024-12-19, Analyzed: 2024-12-19

Alkalinity, Total (as CaCO3)	88.4	1.0 mg/L	100		88	80-120			
Alkalinity, Phenolphthalein (as CaCO3)	30.1	1.0 mg/L	50.0		60	0-200			

LCS (B4L3186-BS2)

Prepared: 2024-12-19, Analyzed: 2024-12-19

Conductivity (EC)	1410	2.0 µS/cm	1410		100	95-105			
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LCS (B4L3186-BS3)

Prepared: 2024-12-19, Analyzed: 2024-12-19

Alkalinity, Total (as CaCO3)	89.3	1.0 mg/L	100		89	80-120			
Alkalinity, Phenolphthalein (as CaCO3)	28.2	1.0 mg/L	50.0		56	0-200			

LCS (B4L3186-BS4)

Prepared: 2024-12-19, Analyzed: 2024-12-19

Conductivity (EC)	1410	2.0 µS/cm	1410		100	95-105			
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Duplicate (B4L3186-DUP2)

Source: 24L2100-01

Prepared: 2024-12-19, Analyzed: 2024-12-19

Alkalinity, Total (as CaCO3)	77.2	1.0 mg/L		77.8			< 1	10	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0 mg/L		< 1.0				10	
Alkalinity, Bicarbonate (as CaCO3)	77.2	1.0 mg/L		77.8			< 1	10	
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0 mg/L		< 1.0				10	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0 mg/L		< 1.0				10	
Conductivity (EC)	200	2.0 µS/cm		200			< 1	5	
pH	7.47	0.10 pH units		7.66			3	4	

Reference (B4L3186-SRM1)

Prepared: 2024-12-19, Analyzed: 2024-12-19

pH	7.02	0.10 pH units	7.01		100	98-102			
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General Parameters, Batch B4L3196

Blank (B4L3196-BLK1)

Prepared: 2024-12-19, Analyzed: 2024-12-19

Turbidity	< 0.10	0.10 NTU							
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LCS (B4L3196-BS1)

Prepared: 2024-12-19, Analyzed: 2024-12-19

Turbidity	15.8	0.10 NTU	14.6		108	90-110			
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General Parameters, Batch B4L3292

Blank (B4L3292-BLK1)

Prepared: 2024-12-20, Analyzed: 2024-12-20

Cyanide, Total	< 0.0020	0.0020 mg/L							
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Blank (B4L3292-BLK2)

Prepared: 2024-12-20, Analyzed: 2024-12-20

Cyanide, Total	< 0.0020	0.0020 mg/L							
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LCS (B4L3292-BS1)

Prepared: 2024-12-20, Analyzed: 2024-12-20

Cyanide, Total	0.0223	0.0020 mg/L	0.0200		112	82-120			
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LCS (B4L3292-BS2)

Prepared: 2024-12-20, Analyzed: 2024-12-20

Cyanide, Total	0.0189	0.0020 mg/L	0.0200		94	82-120			
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LCS Dup (B4L3292-BSD1)

Prepared: 2024-12-20, Analyzed: 2024-12-20

Cyanide, Total	0.0216	0.0020 mg/L	0.0200		108	82-120	3	10	
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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 B4L3292, Continued

LCS Dup (B4L3292-BSD2)			Prepared: 2024-12-20, Analyzed: 2024-12-20						
Cyanide, Total	0.0208	0.0020 mg/L	0.0200		104	82-120	9	10	

Microbiological Parameters, Batch B4L3106

Blank (B4L3106-BLK1)			Prepared: 2024-12-18, Analyzed: 2024-12-18						
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B4L3106-BLK2)			Prepared: 2024-12-18, Analyzed: 2024-12-18						
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B4L3106-BLK3)			Prepared: 2024-12-18, Analyzed: 2024-12-18						
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B4L3106-BLK4)			Prepared: 2024-12-18, Analyzed: 2024-12-18						
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B4L3106-BLK5)			Prepared: 2024-12-18, Analyzed: 2024-12-18						
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B4L3106-BLK6)			Prepared: 2024-12-18, Analyzed: 2024-12-18						
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B4L3106-BLK7)			Prepared: 2024-12-19, Analyzed: 2024-12-19						
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							

Total Metals, Batch B4L3379

Blank (B4L3379-BLK1)			Prepared: 2024-12-20, Analyzed: 2024-12-20						
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							



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B4L3379, Continued									
LCS (B4L3379-BS1)					Prepared: 2024-12-20, Analyzed: 2024-12-20				
Aluminum, total	3.89	0.0050 mg/L	4.00		97	80-120			
Antimony, total	0.0380	0.00020 mg/L	0.0400		95	80-120			
Arsenic, total	0.389	0.00050 mg/L	0.400		97	80-120			
Barium, total	0.0395	0.0050 mg/L	0.0400		99	80-120			
Boron, total	0.395	0.0500 mg/L	0.400		99	80-120			
Cadmium, total	0.0389	0.000010 mg/L	0.0400		97	80-120			
Calcium, total	4.07	0.20 mg/L	4.00		102	80-120			
Chromium, total	0.0395	0.00050 mg/L	0.0400		99	80-120			
Copper, total	0.0394	0.00040 mg/L	0.0400		98	80-120			
Iron, total	3.92	0.010 mg/L	4.00		98	80-120			
Lead, total	0.0396	0.00020 mg/L	0.0400		99	80-120			
Magnesium, total	3.90	0.010 mg/L	4.00		97	80-120			
Manganese, total	0.0398	0.00020 mg/L	0.0400		99	80-120			
Potassium, total	4.00	0.10 mg/L	4.00		100	80-120			
Selenium, total	0.386	0.00050 mg/L	0.400		97	80-120			
Sodium, total	3.90	0.10 mg/L	4.00		98	80-120			
Strontium, total	0.0394	0.0010 mg/L	0.0400		98	80-120			
Uranium, total	0.0396	0.000020 mg/L	0.0400		99	80-120			
Zinc, total	0.383	0.0040 mg/L	0.400		96	80-120			