CERTIFICATE OF ANALYSIS

REPORTED TO	Tissington, Mel - -, - -		
ATTENTION	Mel Tissington	**WORK ORDER**	0080284
PO NUMBER		**RECEIVED / TEMP**	2020-08-05 10:00 / 11°C
PROJECT	Essential Drinking Water	**REPORTED**	2020-08-12 16:07
PROJECT INFO		**COC NUMBER**	B48245

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.

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	Tissington, Mel	**WORK ORDER**	0080284
PROJECT	Essential Drinking Water	**REPORTED**	2020-08-12 16:07

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Full Analysis (0080284-01) | Matrix: Water | Sampled: 2020-08-04 09:30						
Anions						
Chloride	**0.57**	AO ≤ 250	0.10	mg/L	2020-08-06	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2020-08-06	
Nitrate (as N)	**0.170**	MAC = 10	0.010	mg/L	2020-08-06	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2020-08-06	
Sulfate	**9.2**	AO ≤ 500	1.0	mg/L	2020-08-06	
Calculated Parameters						
Total Trihalomethanes	< 0.00400	MAC = 0.1	0.00400	mg/L	N/A	
Hardness, Total (as CaCO3)	**79.8**	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	**95.3**	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	**83.1**	N/A	1.0	mg/L	2020-08-07	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2020-08-07	
Alkalinity, Bicarbonate (as CaCO3)	**83.1**	N/A	1.0	mg/L	2020-08-07	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2020-08-07	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2020-08-07	
Conductivity (EC)	**168**	N/A	2.0	µS/cm	2020-08-07	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2020-08-07	
pH	**7.94**	7.0-10.5	0.10	pH units	2020-08-07	HT2
Turbidity	**0.11**	OG < 1	0.10	NTU	2020-08-05	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2020-08-05	HT3
E. coli	< 1	MAC = 0	1	CFU/100 mL	2020-08-05	HT3
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2020-08-10	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2020-08-10	
Arsenic, total	**0.00386**	MAC = 0.01	0.00050	mg/L	2020-08-10	
Barium, total	< 0.0050	MAC = 2	0.0050	mg/L	2020-08-10	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2020-08-10	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2020-08-10	
Calcium, total	**26.6**	None Required	0.20	mg/L	2020-08-10	
Chromium, total	**0.00168**	MAC = 0.05	0.00050	mg/L	2020-08-10	
Copper, total	**0.00058**	MAC = 2	0.00040	mg/L	2020-08-10	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2020-08-10	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2020-08-10	
Magnesium, total	**3.24**	None Required	0.010	mg/L	2020-08-10	
Manganese, total	< 0.00020	MAC = 0.12	0.00020	mg/L	2020-08-10	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2020-08-11	
Potassium, total	**1.25**	N/A	0.10	mg/L	2020-08-10	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2020-08-10	
Sodium, total	**3.02**	AO ≤ 200	0.10	mg/L	2020-08-10	

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Full Analysis (0080284-01) | Matrix: Water | Sampled: 2020-08-04 09:30, Continued						
Total Metals, Continued						
Strontium, total	**0.0582**	7	0.0010	mg/L	2020-08-10	
Uranium, total	**0.00154**	MAC = 0.02	0.000020	mg/L	2020-08-10	
Zinc, total	**0.0183**	AO ≤ 5	0.0040	mg/L	2020-08-10	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	< 0.0010	N/A	0.0010	mg/L	2020-08-07	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2020-08-07	
Chloroform	< 0.0010	N/A	0.0010	mg/L	2020-08-07	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2020-08-07	
Surrogate: Toluene-d8	*102*		*70-130*	%	*2020-08-07*	
Surrogate: 4-Bromofluorobenzene	*90*		*70-130*	%	*2020-08-07*	

Sample Qualifiers:

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

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

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Tissington, Mel	**WORK ORDER**	0080284
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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
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	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
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
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

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General Comments:

The results in this report apply to the 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 unless otherwise 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

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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 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 B0H0296										
Blank (B0H0296-BLK1)				Prepared: 2020-08-06, Analyzed: 2020-08-06						
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							
Blank (B0H0296-BLK2)				Prepared: 2020-08-06, Analyzed: 2020-08-06						
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 (B0H0296-BS1)				Prepared: 2020-08-06, Analyzed: 2020-08-06						
Chloride	16.3	0.10	mg/L	16.0		102	90-110			
Fluoride	4.00	0.10	mg/L	4.00		100	88-108			
Nitrate (as N)	4.03	0.010	mg/L	4.00		101	90-110			
Nitrite (as N)	2.01	0.010	mg/L	2.00		101	85-115			
Sulfate	16.0	1.0	mg/L	16.0		100	90-110			
LCS (B0H0296-BS2)				Prepared: 2020-08-06, Analyzed: 2020-08-06						
Chloride	16.1	0.10	mg/L	16.0		101	90-110			
Fluoride	3.93	0.10	mg/L	4.00		98	88-108			
Nitrate (as N)	4.02	0.010	mg/L	4.00		100	90-110			
Nitrite (as N)	2.00	0.010	mg/L	2.00		100	85-115			
Sulfate	16.1	1.0	mg/L	16.0		100	90-110			
General Parameters, Batch B0H0293										
Blank (B0H0293-BLK1)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Turbidity	< 0.10	0.10	NTU							
LCS (B0H0293-BS1)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Turbidity	38.5	0.10	NTU	40.0		96	90-110			

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Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B0H0404										
Blank (B0H0404-BLK1)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Cyanide, Total	< 0.0020	0.0020	mg/L							
Blank (B0H0404-BLK2)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Cyanide, Total	< 0.0020	0.0020	mg/L							
LCS (B0H0404-BS1)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Cyanide, Total	0.0195	0.0020	mg/L	0.0200		98	82-120			
LCS (B0H0404-BS2)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Cyanide, Total	0.0212	0.0020	mg/L	0.0200		106	82-120			
LCS Dup (B0H0404-BSD1)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Cyanide, Total	0.0198	0.0020	mg/L	0.0200		99	82-120	1	10	
LCS Dup (B0H0404-BSD2)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Cyanide, Total	0.0214	0.0020	mg/L	0.0200		107	82-120	1	10	
General Parameters, Batch B0H0535										
Blank (B0H0535-BLK1)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
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							
Blank (B0H0535-BLK2)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
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							
Blank (B0H0535-BLK3)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
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 (B0H0535-BS1)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Alkalinity, Total (as CaCO3)	102	1.0	mg/L	100		102	80-120			
LCS (B0H0535-BS2)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Alkalinity, Total (as CaCO3)	102	1.0	mg/L	100		102	80-120			
LCS (B0H0535-BS3)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Alkalinity, Total (as CaCO3)	103	1.0	mg/L	100		103	80-120			
LCS (B0H0535-BS4)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Conductivity (EC)	1420	2.0	µS/cm	1410		101	95-104			
LCS (B0H0535-BS5)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Conductivity (EC)	1460	2.0	µS/cm	1410		103	95-104			

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Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B0H0535, Continued										
LCS (B0H0535-BS6)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Conductivity (EC)	1470	2.0	µS/cm	1410		104	95-104			
Reference (B0H0535-SRM1)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
pH	6.99	0.10	pH units	7.01		100	98-102			
Reference (B0H0535-SRM2)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
pH	6.99	0.10	pH units	7.01		100	98-102			
Reference (B0H0535-SRM3)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
pH	6.98	0.10	pH units	7.01		100	98-102			
Microbiological Parameters, Batch B0H0203										
Blank (B0H0203-BLK1)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLK2)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLK3)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLK4)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLK5)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLK6)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLK7)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLK8)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLK9)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLKA)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLKB)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							

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Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Microbiological Parameters, Batch B0H0203, Continued										
Blank (B0H0203-BLKC)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLKD)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLKE)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLKF)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLKG)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLKH)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLKI)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLKJ)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLKK)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLKL)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Blank (B0H0203-BLKM)				Prepared: 2020-08-05, Analyzed: 2020-08-05						
Coliforms, Total	< 1	1	CFU/100 mL							
E. coli	< 1	1	CFU/100 mL							
Total Metals, Batch B0H0646										
Blank (B0H0646-BLK1)				Prepared: 2020-08-10, Analyzed: 2020-08-10						
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							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Tissington, Mel	**WORK ORDER**	0080284
PROJECT	Essential Drinking Water	**REPORTED**	2020-08-12 16:07

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B0H0646, Continued										
Blank (B0H0646-BLK1), Continued				Prepared: 2020-08-10, Analyzed: 2020-08-10						
Magnesium, total	< 0.010	0.010	mg/L							
Manganese, total	< 0.00020	0.00020	mg/L							
Potassium, total	< 0.10	0.10	mg/L							
Selenium, total	< 0.00050	0.00050	mg/L							
Sodium, total	< 0.10	0.10	mg/L							
Strontium, total	< 0.0010	0.0010	mg/L							
Uranium, total	< 0.000020	0.000020	mg/L							
Zinc, total	< 0.0040	0.0040	mg/L							
LCS (B0H0646-BS1)				Prepared: 2020-08-10, Analyzed: 2020-08-10						
Aluminum, total	0.0222	0.0050	mg/L	0.0199		112	80-120			
Antimony, total	0.0224	0.00020	mg/L	0.0200		112	80-120			
Arsenic, total	0.0212	0.00050	mg/L	0.0200		106	80-120			
Barium, total	0.0211	0.0050	mg/L	0.0198		107	80-120			
Boron, total	< 0.0500	0.0500	mg/L	0.0200		101	80-120			
Cadmium, total	0.0214	0.000010	mg/L	0.0199		108	80-120			
Calcium, total	2.11	0.20	mg/L	2.02		104	80-120			
Chromium, total	0.0204	0.00050	mg/L	0.0198		103	80-120			
Copper, total	0.0209	0.00040	mg/L	0.0200		104	80-120			
Iron, total	2.04	0.010	mg/L	2.02		101	80-120			
Lead, total	0.0217	0.00020	mg/L	0.0199		109	80-120			
Magnesium, total	2.00	0.010	mg/L	2.02		99	80-120			
Manganese, total	0.0196	0.00020	mg/L	0.0199		98	80-120			
Potassium, total	1.95	0.10	mg/L	2.02		97	80-120			
Selenium, total	0.0212	0.00050	mg/L	0.0200		106	80-120			
Sodium, total	1.99	0.10	mg/L	2.02		98	80-120			
Strontium, total	0.0209	0.0010	mg/L	0.0200		105	80-120			
Uranium, total	0.0219	0.000020	mg/L	0.0200		110	80-120			
Zinc, total	0.0217	0.0040	mg/L	0.0200		109	80-120			
Reference (B0H0646-SRM1)				Prepared: 2020-08-10, Analyzed: 2020-08-10						
Aluminum, total	0.308	0.0050	mg/L	0.299		103	70-130			
Antimony, total	0.0550	0.00020	mg/L	0.0517		106	70-130			
Arsenic, total	0.130	0.00050	mg/L	0.119		109	70-130			
Barium, total	0.828	0.0050	mg/L	0.801		103	70-130			
Boron, total	4.28	0.0500	mg/L	4.11		104	70-130			
Cadmium, total	0.0532	0.000010	mg/L	0.0503		106	70-130			
Calcium, total	10.0	0.20	mg/L	10.7		94	70-130			
Chromium, total	0.255	0.00050	mg/L	0.250		102	70-130			
Copper, total	0.512	0.00040	mg/L	0.487		105	70-130			
Iron, total	0.501	0.010	mg/L	0.504		99	70-130			
Lead, total	0.307	0.00020	mg/L	0.278		110	70-130			
Magnesium, total	3.77	0.010	mg/L	3.59		105	70-130			
Manganese, total	0.112	0.00020	mg/L	0.111		101	70-130			
Potassium, total	6.27	0.10	mg/L	5.89		106	70-130			
Selenium, total	0.141	0.00050	mg/L	0.120		118	70-130			
Sodium, total	9.15	0.10	mg/L	8.71		105	70-130			
Strontium, total	0.407	0.0010	mg/L	0.393		104	70-130			
Uranium, total	0.0370	0.000020	mg/L	0.0344		108	70-130			
Zinc, total	2.65	0.0040	mg/L	2.50		106	70-130			
Total Metals, Batch B0H0720										
Blank (B0H0720-BLK1)				Prepared: 2020-08-10, Analyzed: 2020-08-11						
Mercury, total	< 0.000010	0.000010	mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Tissington, Mel	**WORK ORDER**	0080284
PROJECT	Essential Drinking Water	**REPORTED**	2020-08-12 16:07

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B0H0720, Continued										
Blank (B0H0720-BLK2)				Prepared: 2020-08-10, Analyzed: 2020-08-11						
Mercury, total	< 0.000010	0.000010	mg/L							
Duplicate (B0H0720-DUP1)			**Source: 0080284-01**	Prepared: 2020-08-10, Analyzed: 2020-08-11						
Mercury, total	< 0.000010	0.000010	mg/L		< 0.000010				20	
Reference (B0H0720-SRM1)				Prepared: 2020-08-10, Analyzed: 2020-08-11						
Mercury, total	0.00494	0.000010	mg/L	0.00581		85	70-130			
Reference (B0H0720-SRM2)				Prepared: 2020-08-10, Analyzed: 2020-08-11						
Mercury, total	0.00553	0.000010	mg/L	0.00581		95	70-130			
Volatile Organic Compounds (VOC), Batch B0H0532										
Blank (B0H0532-BLK1)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Bromodichloromethane	< 0.0010	0.0010	mg/L							
Bromoform	< 0.0010	0.0010	mg/L							
Chloroform	< 0.0010	0.0010	mg/L							
Dibromochloromethane	< 0.0010	0.0010	mg/L							
Surrogate: Toluene-d8	*0.0251*		*mg/L*	0.0265		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0198*		*mg/L*	0.0249		*79*	*70-130*			
LCS (B0H0532-BS1)				Prepared: 2020-08-07, Analyzed: 2020-08-07						
Bromodichloromethane	0.0234	0.0010	mg/L	0.0200		117	70-130			
Bromoform	0.0239	0.0010	mg/L	0.0200		120	70-130			
Chloroform	0.0218	0.0010	mg/L	0.0200		109	70-130			
Dibromochloromethane	0.0241	0.0010	mg/L	0.0202		119	70-130			
Surrogate: Toluene-d8	*0.0232*		*mg/L*	0.0265		*88*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0273*		*mg/L*	0.0249		*110*	*70-130*			