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KEY TREATED DRINKING WATER PARAMETERS 2023

SAMPLE LOCATION:	ENTERING THE	DISTRIBUTION SYSTEM

Treated Water Parameter	Treated Water Parameter Units Drinking Water Limit / Guideline			
		Annual Average	as defined by Alberta Environment & Parks or the Guidelines for Canadian Drinking Water Quality (2022)	
GENERAL WATER CHEMISTRY				
Colour	TCU	1	≤15	
рН		8.08	6.5 – 8.5	
Turbidity	NTU	0.06	<5	
Chlorine Residual	mg/L	2.19	≥0.1 and ≤ 3.0	
INORGANIC PARAMETERS				
Aluminum	mg/L	0.079	2.9	
Arsenic	mg/L	< 0.001	0.010	
Barium	mg/L	0.103	2.0	
Cadmium	mg/L	<0.00016	0.007	
Calcium	mg/L	52.1	No limit	
Chromium	mg/L	< 0.0005	0.05	
Copper	mg/L	0.001	2.0	
Iron	mg/L	0.01	≤0.3	
Lead	mg/L	<0.0001	0.005	
Magnesium	mg/L	16.8	No limit	
Manganese	mg/L	0.001	0.12	
Mercury	mg/L	<0.00001	<0.001	
Nitrate	mg/L	<0.5	45	
Nitrite	mg/L	<0.05	3	
Potassium	mg/L	1.24	No limit	
Sodium	mg/L	12.6	≤200	
Sulfate	mg/L	65.3	≤500	
Zinc	mg/L	< 0.004	≤5.0	
Fluoride	mg/L	0.66	(AEP: ≥0.6 and ≤ 0.8) (CDWQ MAC : 1.5mg/L)	
Hardness (as CaCO₃)	mg/L	199.2	No limit	
Total Dissolved Solids	mg/L	335.5	≤500	
Total (5) Haloacetic Acids	mg/L	0.022	0.08 (yearly running average)	
Chlorate	mg/L	0.10	1	
Chlorite	mg/L	<0.10	1	
Total Trihalomethanes	mg/L	0.017	0.1	

SAMPLE LOCATION: VARIOUS LOCATIONS WITHIN THE DISTRIBUTION SYSTEM

Treated Water Parameter	Units	Drinking Water Annual Average	Limit as defined by AEP
INORGANIC PARAMETERS			
Turbidity	NTU	0.37	<5
Chlorine Residual	mg/L	1.81	≥0.1 and ≤ 3.0

MICROBIOLOGICAL

Parameter	Samples Collected	Samples Tested	Neg	Pos	% Pos
Total Coliform	1350	1345	1340	0	0.00

NOTE: A positive is thoroughly investigated and corrective actions employed where possible; typically this indicates an issue with the sample rather than contamination within the Distribution System.

SAMPLE LOCATION: SAMPLED WITH-IN DISTRIBUTION SYSTEM (AT LONGEST DETENTION TIME)

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Treated Water Parameter	Units	Drinking Water Annual Average	Guideline Guidelines for Canadian Drinking Water Quality (2022)
DISINFECTION BY PRODUCTS			
Total Trihalomethanes	mg/L	0.017	0.1
Total (5) Haloacetic Acids	mg/L	0.022	0.08 (yearly running average)