



WATER UTILITY

KEY TREATED DRINKING WATER PARAMETERS YYYY

SAMPLE LOCATION: ENTERING THE DISTRIBUTION SYSTEM

Treated Water Parameter	Units	Drinking Water Annual Average	Limit / Guideline as defined by Alberta Environment & Parks or the Guidelines for Canadian Drinking Water Quality (2019)
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GENERAL WATER CHEMISTRY

Colour	TCU	0.87	≤15
pH		7.97	6.5 – 8.5
Turbidity	NTU	0.051	<5
Chlorine Residual	mg/L	2.21	≥0.1 and ≤ 3.0

INORGANIC PARAMETERS

Aluminum	mg/L	0.097	<0.1
Arsenic	mg/L	0.001	0.010
Barium	mg/L	0.108	1.0
Cadmium	mg/L	<0.000016	0.005
Calcium	mg/L	58.1	No limit
Chromium	mg/L	<0.0005	0.05
Copper	mg/L	0.001	≤1.0
Iron	mg/L	<0.1	≤0.3
Lead	mg/L	<0.0001	0.005
Magnesium	mg/L	17.8	No limit
Manganese	mg/L	0.008	≤0.02
Mercury	mg/L	<0.000025	<0.001
Nitrate	mg/L	0.53	45
Nitrite	mg/L	<0.05	3
Potassium	mg/L	1.63	No limit
Sodium	mg/L	12.9	≤200
Sulfate	mg/L	56.2	≤500
Zinc	mg/L	<0.004	≤5.0
Fluoride	mg/L	0.61	(AEP: ≥0.6 and ≤ 0.8) (CDWQ MAC : 1.5mg/L)
Hardness (as CaCO ₃)	mg/L	218.5	No limit
Total Dissolved Solids	mg/L	244.3	≤500
Total (5) Haloacetic Acids	mg/L	0.026	0.08 (yearly running average)
Chlorate	mg/L	0.10	1
Chlorite	mg/L	<0.10	1
Total Trihalomethanes	mg/L	0.019	0.1

SAMPLE LOCATION: VARIOUS LOCATIONS WITHIN THE DISTRIBUTION SYSTEM

Treated Water Parameter	Units	Drinking Water Annual Average	Limit as defined by AEP
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INORGANIC PARAMETERS

Turbidity	NTU	0.38	<5
Chlorine Residual	mg/L	1.83	≥0.1 and ≤ 3.0

MICROBIOLOGICAL

Parameter	Samples Collected	Samples Tested	Neg	Pos	% Pos
Total Coliform	1358	1353	1352	1	0.07

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)

Treated Water Parameter	Units	Ave	Guideline Guidelines for Canadian Drinking Water Quality (2017)
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DISINFECTION BY PRODUCTS

Total Trihalomethanes	mg/L	0.019	0.1
Total (5) Haloacetic Acids	mg/L	0.026	0.08 (yearly running average)

NOTE: the parameters given in the above tables are specific to the testing sample location. These parameters may vary at different locations throughout the distribution system.