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KEY TREATED DRINKING WATER PARAMETERS 2020

SAMPLE LOCATION:	ENTERING THE	DISTRIBUTION SYSTEM

Treated Water Parameter Units Drinking W Annual Ave GENERAL WATER CHEMISTRY Colour TCU 1 pH 7.97 Turbidity NTU 0.05 Chlorine Residual mg/L 2.20 INORGANIC PARAMETERS Aluminum mg/L 0.08 Arsenic mg/L 0.003 Barium mg/L 0.10	
Colour TCU 1 pH 7.97 Turbidity NTU 0.05 Chlorine Residual mg/L 2.20 INORGANIC PARAMETERS aluminum mg/L 0.08 Arsenic mg/L 0.003	6.5 – 8.5 <5 ≥0.1 and ≤ 3.0
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Aluminum mg/L 0.08 Arsenic mg/L 0.003	<0.1
Arsenic mg/L 0.003	<0.1
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Rarium mg/I 0.10	0.010
Darium mg/L 0.10	1.0
Cadmium mg/L 0.00002	3 0.005
Calcium mg/L 57.3	No limit
Chromium mg/L 0.0006	0.05
Copper mg/L 0.0009	≤1.0
Iron mg/L <0.1	≤0.3
Lead mg/L <0.0003	0.005
Magnesium mg/L 17.3	No limit
Manganese mg/L <0.005	≤0.02
Mercury mg/L <0.00002	25 <0.001
Nitrate mg/L 0.57	45
Nitrite mg/L <0.05	3
Potassium mg/L 1.51	No limit
Sodium mg/L 16.1	≤200
Sulfate mg/L 59.4	≤500
Zinc mg/L <0.01	≤5.0
Fluoride mg/L 0.59	(AEP: ≥0.6 and ≤ 0.8) (CDWQ MAC : 1.5mg/L)
Hardness (as CaCO₃) mg/L 215.1	No limit
Total Dissolved Solids mg/L 251.7	≤500
Total (5) Haloacetic Acids mg/L 0.025	0.08 (yearly running average)
Chlorate mg/L <0.1	1
Chlorite mg/L <0.1	1
Total Trihalomethanes mg/L 0.020	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	0.34	<5
Chlorine Residual	mg/L	1.75	≥0.1 and ≤ 3.0

MICROBIOLOGICAL

Parameter	Samples Collected	Samples Tested	Neg	Pos	% Pos
Total Coliform	1377	1361	1356	5	0.37

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)
DISINFECTION BY PRODUCTS			
Total Trihalomethanes	mg/L	0.023	0.1
Total (5) Haloacetic Acids	mg/L	0.033	0.08 (yearly running average)