



CITY OF FORT ST. JOHN
TREATED WATER ANALYSIS
 2018



SAMPLED FROM WATER TREATMENT PLANT

PARAMETER	UNITS	M.D.L.	GUIDELINE	ANALYSIS RESULTS			AVERAGE
				Mar 29	Dec 14		
Anions							
Nitrite (N)	mg/L	0.005	MAC 3.0	<0.0050	<0.0050		<0.0050
Nitrate (N)	mg/L	0.02	MAC 45	0.031	0.045		0.038
Calculated Parameters							
Total Hardness (CaCO ₃)	mg/L	0.5	<500	181	187		184.0
Inorganics							
Fluoride (F)	mg/L	0.02	MAC 1.5	0.91	0.86		0.9
Strong Acid Dissoc. Cyanide (CN)	mg/L	0.0005	MAC 0.20	0.00068			0.00068
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.0005		0.00065			0.00065
Alkalinity (Total as CaCO ₃)	mg/L	1	N/A	148	156		152
Alkalinity (PP as CaCO ₃)	mg/L	1	N/A	<1.0	<1.0		<1.0
Bicarbonate (HCO ₃)	mg/L	1.00	N/A	180	191		186
Carbonate (CO ₃)	mg/L	1	N/A	<1.0	<1.0		<1.0
Hydroxide (OH)	mg/L	1	N/A	<1.0	<1.0		<1.0
Anions							
Dissolved Sulphate (SO ₄)	mg/L	1.00	N/A	39.0	40.9		40.0
Dissolved Chloride (Cl)	mg/L	1	AO ≤250	1.9	2.0		2.0
Miscellaneous							
True Colour	Col. Unit	5	AO≤15	<5.0	<5.0		<5.0
Nutrients							
Nitrate plus Nitrite (N)	mg/L	0.02		0.0	0.045		0.04
Physical Properties							
Conductivity	uS/cm	2	N/A	367	379		373
pH	pH		7.0-10.5	8.11	8.06		8.09
Total Dissolved Solids	mg/L	10	AO ≤500	214	210		212
Turbidity	NTU	0.10	≤0.3	0.05	0.18		0.12
Total Metals							
Total Aluminum (Al)	ug/L	3	AO 100	<3.0	<3.0		<3.0
Total Antimony (Sb)	ug/L	0.5	MAC 6.0	<0.50	<0.50		<0.50
Total Arsenic (As)	ug/L	0.1	Mac 10	0.14	0.13		0.135
Total Barium (Ba)	ug/L	1	N/A	82.2	91.2		86.7
Total Boron (B)	ug/L	50	MAC 5000	<50	<50		<50
Total Cadmium (Cd)	ug/L	0.01	MAC 5.0	<0.010	<0.010		<0.010
Total Chromium (Cr)	ug/L	1	MAC 50	<1.0	<1.0		<1.0
Total Cobalt (Co)	ug/L	0.2	N/A	<0.20	<0.20		<0.20
Total Copper (Cu)	ug/L	0.2	AO ≤1000	5.33	123		64.165
Total Iron (Fe)	ug/L	5	AO ≤300	<5.0	<5.0		<5.0
Total Lead (Pb)	ug/L	0.2	MAC 10	0.10	0.63		0.4
Total Manganese (Mn)	ug/L	1	AO ≤50	<1.0	<1.0		<1.0
Total Molybdenum (Mo)	ug/L	1	MAC 250	0.5	1.1		0.8
Total Nickel (Ni)	ug/L	1	N/A	<1.0	<1.0		<1.0
Total Selenium (Se)	ug/L	0.1	MAC 50	0.340	0.38		0.360
Total Silver (Ag)	ug/L	0.02	N/A	<0.020	<0.020		<0.020
Total Uranium (U)	ug/L	0.1	MAC 20	0.68	0.71		0.695
Total Vanadium (V)	ug/L	5	N/A	<5.0	<5.0		<5.0
Total Zinc (Zn)	ug/L	5	AO ≤5000	<5.0	<5.0		<5.0
Total Calcium (Ca)	mg/L	0.05	200	55.0	56.6		55.8
Total Magnesium (Mg)	mg/L	0.05	AO ≤0.05 (Mg)	10.5	11.1		10.8
Total Potassium (K)	mg/L	0.05	N/A	0.750	0.836		0.793
Total Sodium (Na)	mg/L	0.05	AO ≤200	4.35	5.18		4.765
Total Sulphur (S)	mg/L	3	N/A	13.0	13.7		13.4
Elements							
Total Mercury (Hg)	ug/L	0.01	MAC 1	<0.0020	<0.0020		<0.0020
Microbiological							
Total Coliforms	CFU/100mL	N/A	MAC 0	0.0	0.0		0.0
E. coli	CFU/100mL	N/A	MAC 0	0.0	0.0		0.0

MAC = Maximum Allowable Concentration
 MDL = Method Detection Limit / Lowest Detectable Concentration
 AO = Aesthetic Objective

Testing prepared by MAXXAM Laboratories.