



CITY OF FORT ST. JOHN
TREATED WATER ANALYSIS
 2016



SAMPLED FROM WATER TREATMENT PLANT

PARAMETER	UNITS	M.D.L.	GUIDELINE	ANALYSIS RESULTS		AVERAGE
				31-Mar	1-Jun	
Physical Tests (Water)						
Conductivity	uS/cm	2	N/A	356	354	355.0
Hardness (as CaCO3)	mg/L	0.5	<500	185	192	188.5
pH	pH	0.1	AO 6.5-8.5	7.69	7.98	7.8
Total Dissolved Solids	mg/L	20	AO ≤500	200	214	207.0
Anions and Nutrients (Water)						
Alkalinity, Bicarbonate (as CaCO3)	mg/L	1	N/A	149	150	150
Alkalinity, Carbonate (as CaCO3)	mg/L	1	N/A	<1.0	<1.0	<1.0
Alkalinity, Hydroxide (as CaCO3)	mg/L	1	N/A	<1.0	<1.0	<1.0
Alkalinity, Phenolphthalein (as CaCO3)	mg/L	2	N/A	<2.0	<2.0	<2.0
Alkalinity, Total (as CaCO3)	mg/L	1.00	N/A	149	150	150
Bromide (Br)	mg/L	0.05	N/A	<0.050	<0.050	<0.050
Chloride (Cl)	mg/L	0.5	AO ≤250	1.75	1.78	1.77
Fluoride (F)	mg/L	0.02	MAC 1.50	0.063	0.8	0.438
Nitrate (as N)	mg/L	0.005	MAC 45	0.0387	0.0488	0.0438
Nitrite (as N)	mg/L	0.001	MAC 3.2	<0.0010	<0.0010	<0.0010
Silicate (as SiO2)	mg/L	0.50	N/A	4.79	5.41	5.1
Sulfate (SO4)	mg/L	0.3	AO ≤500	36.1	35.9	36.0
Anion Sum	meq/L		N/A	3.78	3.85	3.82
Cation Sum	meq/L		N/A	3.9	4.1	3.97
Cation - Anion Balance	%		N/A	1.4	2.6	2
Cyanides (Water)						
Cyanide, Total	mg/L	0.005	MAC 0.20	<0.0050	<0.0050	<0.0050
Bacteriological Tests (Water)						
E. coli	MPN/100mL	1	MAC 0.00	<1	<1	<1
Coliform Bacteria - Total	MPN/100mL	1	MAC 0.00	<1	<1	<1
Total Metals (Water)						
Aluminum (Al)-Total	mg/L	0.01	AO 0.100	<0.010	<0.010	<0.010
Antimony (Sb)-Total	mg/L	0.0005	MAC 0.100	<0.00050	<0.00050	<0.00050
Arsenic (As)-Total	mg/L	0.001	MAC 0.010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	mg/L	0.02	MAC 1.00	0.084	88	44.042
Beryllium (Be)-Total	mg/L	0.001	N/A	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	mg/L	0.001	N/A	<0.0010	<0.0010	<0.0010
Boron (B)-Total	mg/L	0.1	MAC 5.00	<0.10	<0.10	<0.10
Cadmium (Cd)-Total	mg/L	0.0002	MAC 0.005	<0.00020	<0.00020	<0.00020
Calcium (Ca)-Total	mg/L	0.1	200	56.2	58.5	57.35
Chromium (Cr)-Total	mg/L	0.002	MAC 0.05	<0.0020	<0.0020	<0.0020
Cobalt (Co)-Total	mg/L	0.001	N/A	<0.0010	<0.0010	<0.0010
Copper (Cu)-Total	mg/L	0.001	AO ≤1.00	0.0093	0.01	0.01
Iron (Fe)-Total	mg/L	0.03	AO ≤0.30	<0.030	<0.030	<0.030
Lead (Pb)-Total	mg/L	0.001	MAC 0.010	<0.0010	<0.0010	<0.0010
Lithium (Li)-Total	mg/L	0.01	N/A	<0.010	<0.010	<0.010
Magnesium (Mg)-Total	mg/L	0.1	N/A	10.7	11.1	10.90000
Manganese (Mn)-Total	mg/L	0.002	AO ≤0.05	<0.0020	<0.0020	<0.0020
Mercury (Hg)-Total	mg/L	0.0002	MAC 0.001	<0.00020	<0.00020	<0.00020
Molybdenum (Mo)-Total	mg/L	0.001	MAC 0.25	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	mg/L	0.001	N/A	<0.0010	<0.0010	<0.0010
Phosphorus (P)-Total	mg/L	0.3	MAC 0.010	<0.30	<0.30	<0.30
Potassium (K)-Total	mg/L	2	N/A	<2.0	<2.0	<2.0
Selenium (Se)-Total	mg/L	0.001	MAC 0.010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L	0.05	N/A	2.37	2.72	2.5
Silver (Ag)-Total	mg/L	0.0001	MAC 0.050	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	mg/L	2	AO ≤200	4.4	5.1	4.8
Strontium (Sr)-Total	mg/L	0.001	N/A	0.157	0.154	0.1555
Sulfur (S)-Total	mg/L	0.5	N/A	11.8	12.5	12.15
Thallium (Tl)-Total	mg/L	0.001	N/A	<0.0010	<0.0010	<0.0010
Tin (Sn)-Total	mg/L	0.001	N/A	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	mg/L	0.01	N/A	<0.010	<0.010	<0.010
Uranium (U)-Total	mg/L	0.0001	MAC 0.02	0.00074	0.00072	0.00073
Vanadium (V)-Total	mg/L	0.005	N/A	<0.0050	<0.0050	<0.0050
Zinc (Zn)-Total	mg/L	0.05	AO ≤5.0	<0.050	<0.050	<0.050

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

Testing prepared by ALS Laboratories.