



CITY OF FORT ST. JOHN
TREATED WATER ANALYSIS
2015



SAMPLED FROM WATER TREATMENT PLANT

PARAMETER	UNITS	M.D.L.	GUIDELINE	ANALYSIS RESULTS		AVERAGE
				5-Mar	28-Sep	
Physical Tests						
Conductivity	uS/cm	2	N/A	324	335	330
Hardness (as CaCO3)	mg/L	0.5	<500	171	180	176
pH	pH	0.1	AO 6.5 - 8.5	8.12	7.99	8.06
Total Dissolved Solids	mg/L	20	AO ≤500	190	221	206
Anions and Nutrients						
Alkalinity, Bicarbonate (as CaCO3)	mg/L	2	N/A	143	149	146
Alkalinity, Carbonate (as CaCO3)	mg/L	2	N/A	<2.0	<2.0	<2.0
Alkalinity, Hydroxide (as CaCO3)	mg/L	2	N/A	<2.0	<2.0	<2.0
Alkalinity, Phenolphthalein (as CaCO3)	mg/L	2	N/A	<2.0	<2.0	<2.0
Alkalinity, Total (as CaCO3)	mg/L	2.00	N/A	143	149	146
Bromide (Br)	mg/L	0.05	N/A	<0.050	<0.050	<0.050
Chloride (Cl)	mg/L	0.5	AO ≤250	1.64	1.67	1.66
Fluoride (F)	mg/L	0.02	MAC 1.50	0.816	0.633	0.725
Nitrate (as N)	mg/L	0.005	MAC 45	0.0475	0.0549	0.0512
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	5.40	5.78	5.59
Sulfate (SO4)	mg/L	0.3	AO ≤500	31.7	29.7	30.7
Anion Sum	meq/L	-	N/A	3.60	3.67	3.64
Cation Sum	meq/L	-	N/A	3.57	3.77	3.67
Cation - Anion Balance	%	-	N/A	-0.4	1.3	0.5
Cyanides						
Cyanide, Total	mg/L	0.005	MAC 0.20	<0.0050	<0.0050	<0.0050
Bacteriological Tests						
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						
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	0.082	0.090	0.086
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	52.1	55.4	53.8
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	0.0042	0.0552	0.0297
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	9.85	10.1	9.98
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	0.0011	0.0011	0.0011
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	2.48	2.76	2.62
Silver (Ag)-Total	mg/L	0.0001	MAC 0.050	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	mg/L	2	AO ≤200	3.8	4	3.9
Strontium (Sr)-Total	mg/L	0.001	N/A	0.151	0.153	0.152
Sulfur (S)-Total	mg/L	0.5	N/A	10.5	10.2	10.4
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	0.00068	0.00067	0.00068
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
Color, True	CU		5			

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

Testing prepared by ALS Laboratories.