



CITY OF FORT ST. JOHN
TREATED WATER ANALYSIS
2025



SAMPLED FROM WATER TREATMENT PLANT

 PARAMETER 	UNITS	R.D.L.	GUIDELINE	ANALYSIS RESULTS			AVERAGE
				28-Jul	29-Oct		
Calculated Parameters							
Hardness (CaCO3)	mg/L	0.5	<500	171	162		167
Dissolved Nitrate (N)	mg/L	0.01	MAC 10	0.06	<.02		0.060
Dissolved Nitrite (N)	mg/L	0.033	MAC 1	<0.005	<.005		<0.005
Misc. Inorganics							
Conductivity	uS/cm	2	N/A	390	370		380
pH	pH	N/A	7.0-10.5	8.34	7.87		8
Total Dissolved Solids	mg/L	10	AO ≤500	210	210		210
Anions							
Alkalinity (PP as CaCO3)	mg/L	1	N/A	1.7	<1		<1.0
Alkalinity (Total as CaCO3)	mg/L	1	N/A	150	150		150
Bicarbonate (HCO3)	mg/L	1	N/A	180	190		185
Carbonate (CO3)	mg/L	1	N/A	2.1	<1		<1.0
Hydroxide (OH)	mg/L	1	N/A	<1.0	<1		<1.0
Dissolved Chloride (Cl)	mg/L	1	AO ≤250	1	1.8		1.40
Dissolved Fluoride (F)	mg/L	0.05	MAC 1.5	0.61	0.54		0.58
Dissolved Sulphate (SO4)	mg/L	1	N/A	35	33		34
Microbiological Param.							
E.Coli DST	MPN/100mL	1	<1	0	0		0
Total Coliforms DST	MPN/100mL	1	<1	0	0		0
Nutrients							
Dissolved Nitrate plus Nitrite (N)	mg/L	0.02		0.06	0.020		0.040
Physical Properties							
True Colour	Col. units	2	AO≤15	<2.0	<2		<2.0
Turbidity	NTU	0.1	≤0.3	0.22	<.1		0.220
Elements							
Total Mercury (Hg)	ug/L	0.0019		<.0019	<.0019		<0.0019
Total Aluminum (Al)	ug/L	3.0	MAC 2900	3.6	3.3		<3.0
Total Antimony (Sb)	ug/L	0.50	MAC 6	<.50	<.50		<0.50
Total Arsenic (As)	ug/L	0.10	MAC 10	0.19	0.26		0.23
Total Barium (Ba)	ug/L	1.0	MAC 2000	85.5	12.6		49.1
Total Boron (B)	ug/L	50.0	MAC 5000	<50	<50		<50
Total Cadmium (Cd)	ug/L	0.010	MAC 7	0.068	<.010		<0.010
Total Chromium (Cr)	ug/L	1.0	MAC 50	<1.0	<1		<1.0
Total Cobalt (Co)	ug/L	<0.20		<0.20	<.20		<0.20
Total Copper (Cu)	ug/L	5.11	MAC 2000	6.32	739.0		372.7
Total Iron (Fe)	ug/L	5.0	AO ≤300	<5.0	26.6		<5.0
Total Lead (Pb)	ug/L	0.20	MAC 5	<0.20	1.03		1.03
Total Manganese (Mn)	ug/L	1.0	MAC 120	<1.0	6.5		<1.0
Total Molybdenum (Mo)	ug/L	1.0		<1.0	<1		<1.0
Total Nickel (Ni)	ug/L	1.0		<1.0	<1		<1.0
Total Selenium (Se)	ug/L	0.10	MAC 50	0.52	0.19		0.36
Total Silicon (Si)	ug/L	100.0		2620	11900		7260
Total Silver (Ag)	ug/L	0.020		<0.020	<.02		<0.020
Total Strontium (Sr)	ug/L	1.0	MAC 7000	163	111.0		137
Total Sulphur (S)	ug/L	3.0		11.3	<3		11.3
Total Uranium (U)	ug/L	0.10	MAC 20	0.64	0.22		0.43
Total Vanadium (V)	ug/L	5.0		<5.0	<5.0		,5.0
Total Zinc (Zn)	ug/L	5.0	AO≤5000	<5.0	29.9		<5.0
Total Calcium (Ca)	mg/L	0.05		51.2	36.9		44.1
Total Magnesium (Mg)	mg/L	0.050		10.5	17.00		13.8
Total Potassium (K)	mg/L	0.050		0.754	0.733		0.744
Total Sodium (Na)	mg/L	0.050	AO≤200	3.66	10.2		6.93

MAC = Maximun Allowable Concentration

RDL = Reportable Detection Limit

AO = Aesthetic Objective

OG = Operational Guidance Value

ALARA = As low as reasonably achievable

Testing prepared by Bureau Veritas Laboratories.