SAINT PAUL REGIONAL WATER SERVICES PHYSICAL AND CHEMICAL ANALYSIS OF WATER Aug-21



All results are in parts per million & Samples Measured are Dissolved Ions. Analytes with Nelac Lab Cert No. are Nelac Accredited analytes				BORATON
PHYSICAL WATER QUALITY				
	Reporting Limit	EFFLUENT		Nelac Lab Cert. No
Color (Color Units)	4	<4	Hach Method 8025	
Loss Ignition (ppm)	84	<84	SM 2540 E	
Non-Volatile Salts (ppm)	84	120	SM 2540 E	
Temperature (°C)	NA	25	SM 2550 B-93	
Total Dissolved Solids (ppm)	140	170	SM 2540 C-2011	1999193
Turbidity (NTU)	0.020	0.032	EPA 180.1	1999193
CHEMICAL WATER QUALITY				
	Reporting Limit	EFFLUENT	Method Reference	Nelac Lab Cert. No
Alkalinity-Total (ppm as CaCO ₃)	0.40	49	SM 2320B	
Carbonate Hardness (ppm as CaCO ₃)	0.40	49	SM 2340 C	
Dissolved Oxygen (ppm)	1.2	8.4	SM 4500-O G (20th)	
Hydrogen Ion-pH	0.04	8.85	SM 4500-H+ B - 2011	1999193
Non-Carbonate Hardness (ppm)	0.40	31	SM 2340 C	
Total Hardness (ppm as CaCO ₃)-EDTA method	0.40	80	SM 2340 C	
Total Organic Carbon (ppm as C)	2.00	3.98	SM 5310 B - 2011	1999193
Total Hardness (grains/Gal as CaCO ₃)-EDTA method is		0.00		1000100
CHEMICAL WATER QUALITY - INORGANIC NO	NMETALS			
OTTENTOTIE WITTER QUITETT TOTAL TOTAL	Reporting Limit	EFFLUENT	Method Reference	Nelac Lab Cert. No
Ammonia Nitrogen (ppm as N)	0.100	0.930	EPA 350.1	INCIAC LAD OCIT. INC
7 (ITITIOTILA TALLOGOTI (PPITI 43 TA)	0.100	0.000	L1 / (000.1	2001911
				Subcontracted to Pace
Bromide (ppm as Br-1)	0.0003	<0.0003	EPA 300.0	Analytical
Chloride-Cl (ppm as Cl ⁻¹)	8	34	SM 4500-CL-B (20th)	
Chlorine Residual (ppm Cl as Cl ₂)	0.085	3.20	Hach 10101	
Fluoride-F (ppm as F ⁻¹)	0.08	0.75	EPA 9214	
Nitrate, Nitrite Nitrogen (ppm as N)	0.082	0.120	EPA 353.2	
Sulfate (ppm as SO ₄)	2.7	14.1	Hach 8051	
Sulfur-S (ppm as S)	2.7	4.7	Hach 8051	
Sulfide-S ²⁻ (ppm as S ²⁻)	0.020	<0.02	Hach 8131	
Total Phosphorus-P (ppm as P)	0.020	<0.02	EPA 365.1	
Total Nitrogen-N (ppm as N)	0.023	ND	SM 5310 B - Modified	
CHEMICAL WATER QUALITY - METALS	0.200	IND	Sivi 33 to D - Modified	
CHEMICAL WATER QUALITY - METALS	Donorting Limit	EFFLUENT	Mothed Deference	Nolog Lob Cart No
Aluminum Al (nom on Al)	Reporting Limit			Nelac Lab Cert. No
Aluminum-Al (ppm as Al)	0.0013	0.0172	EPA 200.8	1999193
Arsenic-As (ppm as As)	0.0001	0.0007 <0.0001	EPA 200.8	1999193 1999193
Cadmium-Cd (ppm as Cd) Calcium-Ca (ppm as Ca)	0.0001	53	EPA 200.8 SM 2340 C	1999193
Copper-Cu (ppm as Cu)	0.4000	<0.0026	EPA 200.8	1999193
				1999193
Hexavalent Chromium (ppm as Cr ⁶⁺)	0.0400	<0.04	Hach 8023	
Iron-Fe (ppm as Fe)	0.0633	<0.0633	EPA 200.8	4000400
Lead-Pb (ppm as Pb)	0.0001	<0.0001	EPA 200.8	1999193
Magnesium-Mg (ppm as Mg) Manganese-Mn (ppm as Mn)	0.4000	28 <0.0011	SM 2340 C EPA 200.8	1000102
	NA	NA	EPA 200.8	1999193
Silicon-Si (ppm as Si) Sodium-Na (ppm as Na)	0.0007	17.08	EPA 200.8	
Strontium-Sr (ppm as Sr)	0.0007	0.0642	EPA 200.8 EPA 200.8	
Zinc-Zn (ppm as Zn)	0.0002	<0.0042	EPA 200.8	1999193
MICROBIOLOGY WATER QUALITY	0.0021	\0.0021		1333133
WITCH ODICEOUT WATER QUALITY	Number of Samples		Mathad Dafarana	Noloo Lob Cort No
Total Coliform Count 35°C/100 ml	Number of Samples			Nelac Lab Cert. No
TOTAL COMOTH COUNT 35 C/ 100 III	248	Absent	SM 9223 B-2016 (IDEXX Colilert	1999193