SAINT PAUL REGIONAL WATER SERVICES PHYSICAL AND CHEMICAL ANALYSIS OF WATER Apr-16 All results are in parts per million & Samples Measured are Dissolved lo

All results are in parts per million & Samples Measured are Dissolved Ions		
PHYSICAL WATER QUALITY		
	Reporting Limit	EFFLUENT
Color (Color Units)	4	<4
Loss Ignition (ppm)	84	<84
Non-Volatile Salts (ppm)	84	<84
Temperature (°C)	0.02	8
Total Dissolved Solids (ppm)	140	150
Turbidity (NTU)	0.030	0.031
CHEMICAL WATER QUALITY		
	Reporting Limit	EFFLUENT
Alkalinity-Total (ppm as CaCO ₃)	0.40	52
Carbonate Hardness (ppm as CaCO ₃)	0.40	52
Dissolved Oxygen (ppm)	1.2	12.0
Hydrogen Ion-pH	0.04	8.96
Non-Carbonate Hardness (ppm)	0.40	33
Total Hardness (ppm as CaCO ₃)-EDTA method	0.40	85
Total Organic Carbon (ppm as C)	1.00	4.82
Total Hardness (grains/Gal as CaCO ₃)-EDTA method is 4.99		
CHEMICAL WATER QUALITY - INORGANIC NONMETALS		
	Reporting Limit	EFFLUENT
Ammonia Nitrogen (ppm as N)	0.020	0.944
Bromide (ppm as Br-1)	0.050	0.140
Chloride-Cl (ppm as Cl ⁻¹)	8	37
Chlorine Residual (ppm Cl as Cl ₂)	0.085	3.19
Fluoride-F (ppm as F ⁻¹)	0.08	0.82
Nitrate, Nitrite Nitrogen (ppm as N)	0.012	0.400
Sulfur-S (ppm as S)	2.7	<2.7
Sulfide-S ²⁻ (ppm as S ²⁻)	0.020	<0.02
Total Phosphorus-P (ppm as P)	0.025	0.026
Total Nitrogen-N (ppm as N)	0.008	1.27
CHEMICAL WATER QUALITY - METALS		
	Reporting Limit	EFFLUENT
Aluminum-Al (ppm as Al)	0.006	0.012
Arsenic-As (ppm as As)	N/A	N/A
Cadmium-Cd (ppm as Cd)	N/A	N/A
Calcium-Ca (ppm as Ca)	0.40	21
Copper-Cu (ppm as Cu)	0.050	<0.05
Hexavalent Chromium (ppm as Cr ⁶⁺)	0.040	<0.04
Iron-Fe (ppm as Fe)	0.050	<0.05
Lead-Pb (ppm as Pb)	0.006	<0.006
Magnesium-Mg (ppm as Mg)	0.40	8
Manganese-Mn (ppm as Mn)	0.090	<0.09
Silicon-Si (ppm as Si)	0.84	2.85
Sodium-Na (ppm as Na)	0.079	20.30
Strontium-Sr (ppm as Sr)	N/A	N/A
Zinc-Zn (ppm as Zn)	0.050	<0.05