



Minneapolis Water Works

Monthly Plant Effluent Water Analysis for: January 2024

Physical and Chemical Water Quality

	<u>Plant Effluent Average Value</u>
Temperature, River Water Average (°C)	2.4
Total Organic Carbon (ppm* as C)	4.57
Total Dissolved Solids (ppm)	182
Turbidity (NTU)	0.05
Alkalinity-Total (ppm as CaCO ₃)	56
Ammonia Nitrogen (ppm as N)	0.90
Total Chloramine Residual (ppm as NH ₂ Cl)	3.9
Fluoride-F (ppm as F)	0.71
pH	9.04
Nitrate - NO ₃ (ppm as N)	1.24
Nitrite - NO ₂ (ppm as N)	<0.015
Phosphate-PO ₄ (ppm as PO ₄)	0.82
Sulfate - SO ₄ (ppm as SO ₄)	36.1
Total Hardness (grains per gallon) EDTA method	6.4
Total Hardness (ppm as CaCO ₃) EDTA method	110

Chemical Water Quality - Inorganic Metals

	<u>Plant Effluent Average Value</u>
<u>Chemical Element</u>	
Aluminum-Al (ppm as Al)	Not Detected
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	35.7
Chloride-Cl (ppm as Cl)	29.5
Chromium (ppm as Cr)	<0.01
Copper-Cu (ppm as Cu)	<0.01
Iron-Fe (ppm as Fe)	Not Detected
Lead-Pb (ppm as Pb)	Not Detected
Magnesium-Mg (ppm as Mg)	2.37
Manganese-Mn (ppm as Mn)	<0.01
Silica-Si (ppm as SiO ₂)	9.8
Sodium-Na (ppm as Na)	15.2
Zinc-Zn (ppm as Zn)	<0.01
*ppm = parts per million	