

Minneapolis Water Works

Monthly Plant Effluent Water Analysis for: July 2024

Physical and Chemical Water Quality

	<u>Plant Effluent Average Value</u>
Temperature, River Water Average (°C)	27.2
Total Organic Carbon (ppm* as C)	5.95
Total Dissolved Solids (ppm)	152
Turbidity (NTU)	0.05
Alkalinity-Total (ppm as CaCO ₃)	54
Ammonia Nitrogen (ppm as N)	0.92
Total Chloramine Residual (ppm as NH ₂ Cl)	4.0
Fluoride-F (ppm as F)	0.68
pH	9.07
Nitrate - NO ₃ (ppm as N)	0.78
Nitrite - NO ₂ (ppm as N)	<0.015
Phosphate-PO ₄ (ppm as PO ₄)	0.75
Sulfate - SO ₄ (ppm as SO ₄)	28.3
Total Hardness (grains per gallon) EDTA method	5.3
Total Hardness (ppm as CaCO ₃) EDTA method	91

Chemical Water Quality - Inorganic Metals

	<u>Plant Effluent Average Value</u>
<u>Chemical Element</u>	
Aluminum-Al (ppm as Al)	0.10
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	35.3
Chloride-Cl (ppm as Cl)	23.4
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)	1.17
Manganese-Mn (ppm as Mn)	<0.01
Silica-Si (ppm as SiO ₂)	9.1
Sodium-Na (ppm as Na)	14.4
Zinc-Zn (ppm as Zn)	<0.01
*ppm = parts per million	