



# Minneapolis Water Works

## Monthly Plant Effluent Water Analysis for:

### August 2023

### Physical and Chemical Water Quality

	<u>Plant Effluent Average Value</u>
Temperature, River Water Average (°C)	27.7
Total Organic Carbon (ppm* as C)	2.76
Total Dissolved Solids (ppm)	175
Turbidity (NTU)	0.05
Alkalinity-Total (ppm as CaCO <sub>3</sub> )	45
Ammonia Nitrogen (ppm as N)	0.93
Total Chloramine Residual (ppm as NH <sub>2</sub> Cl)	3.9
Fluoride-F (ppm as F)	0.70
pH	9.07
Nitrate - NO <sub>3</sub> (ppm as N)	0.17
Nitrite - NO <sub>2</sub> (ppm as N)	<0.015
Phosphate-PO <sub>4</sub> (ppm as PO <sub>4</sub> )	0.58
Sulfate - SO <sub>4</sub> (ppm as SO <sub>4</sub> )	25.8
Total Hardness (grains per gallon) EDTA method	4.5
Total Hardness (ppm as CaCO <sub>3</sub> ) EDTA method	77

### Chemical Water Quality - Inorganic Metals

	<u>Plant Effluent Average Value</u>
<b><u>Chemical Element</u></b>	
Aluminum-Al (ppm as Al)	0.04
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	23.8
Chloride-Cl (ppm as Cl)	30.0
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)	3.13
Manganese-Mn (ppm as Mn)	<0.01
Silica-Si (ppm as SiO <sub>2</sub> )	6.2
Sodium-Na (ppm as Na)	20.9
Zinc-Zn (ppm as Zn)	<0.01
*ppm = parts per million	