

## Minneapolis Water Works Monthly Plant Effluent Water Analysis for: June 2023

Physical and Chemical	Water (	Duality
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	Plant Effluent Average Value
Temperature, River Water Average (°C)	27.5
Total Organic Carbon (ppm* as C)	3.55
Total Dissolved Solids (ppm)	194
Turbidity (NTU)	0.04
Alkalinity-Total (ppm as CaCO <sub>3</sub> )	55
Ammonia Nitrogen (ppm as N)	0.93
Total Chloramine Residual (ppm as NH2Cl)	3.9
Fluoride-F (ppm as F)	0.74
pH	9.06
Nitrate - NO <sub>3</sub> (ppm as N)	0.52
Nitrite - NO <sub>2</sub> (ppm as N)	< 0.015
Phosphate-PO <sub>4</sub> (ppm as PO <sub>4</sub> )	0.80
Sulfate - SO <sub>4</sub> (ppm as SO <sub>4</sub> )	29.8
Total Hardness (grains per gallon) EDTA method	5.43
Total Hardness (ppm as CaCO <sub>3</sub> ) EDTA method	93
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## Chemical Water Quality - Inorganic Metals

## **Plant Effluent Average Value**

## **Chemical Element**

Aluminum-Al (ppm as Al)	0.05
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	32.5
Chloride-Cl (ppm as Cl)	29.2
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)	1.67
Manganese-Mn (ppm as Mn)	< 0.01
Sillca-Si (ppm as SiO <sub>2</sub> )	7.1
Sodium-Na (ppm as Na)	17.9
Zinc-Zn (ppm as Zn)	< 0.01
*ppm = parts per million	