

# Minneapolis Water Works

## Monthly Plant Effluent Water Analysis for:

### June 2020

#### Physical and Chemical Water Quality

	<u>Plant Effluent Average Value</u>
Temperature, River Water Average (°C)	25.9
Total Organic Carbon (ppm* as C)	3.05
Total Dissolved Solids (ppm)	153
Turbidity (NTU)	0.03
Alkalinity-Total (ppm as CaCO <sub>3</sub> )	41
Ammonia Nitrogen (ppm as N)	0.94
Total Chloramine Residual (ppm as NH <sub>2</sub> Cl)	4.0
Fluoride-F (ppm as F)	0.63
pH	9.05
Nitrate - NO <sub>3</sub> (ppm as N)	0.74
Nitrite - NO <sub>2</sub> (ppm as N)	<0.015
Phosphate-PO <sub>4</sub> (ppm as PO <sub>4</sub> )	0.61
Sulfate - SO <sub>4</sub> (ppm as SO <sub>4</sub> )	31.2
Total Hardness (grains per gallon) EDTA method	4.72
Total Hardness (ppm as CaCO <sub>3</sub> ) EDTA method	81

#### Chemical Water Quality - Inorganic Metals

<u>Chemical Element</u>	<u>Plant Effluent Average Value</u>
Aluminum-Al (ppm as Al)	0.03
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	28.9
Chloride-Cl (ppm as Cl)	29.1
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)	2.0
Manganese-Mn (ppm as Mn)	<0.01
Silica-Si (ppm as Si)	6.6
Sodium-Na (ppm as Na)	17.3
Zinc-Zn (ppm as Zn)	<0.01

\*ppm = parts per million