

## Minneapolis Water Works Monthly Plant Effluent Water Analysis for: April 2017

Physical a	and Chemical	Water Q	Duality
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	Plant Effluent Average Value
Temperature, River Water Average (°C)	12.2
Total Organic Carbon (ppm* as C)	3.99
Total Dissolved Solids (ppm)	157
Turbidity (NTU)	0.06
Alkalinity-Total (ppm as CaCO <sub>3</sub> )	45
Ammonia Nitrogen (ppm as N)	0.83
Chlorine Residual (ppm Cl as Cl <sub>2</sub> )	3.8
Fluoride-F (ppm as F)	0.74
pH	8.89
Nitrate - NO <sub>3</sub> (ppm as N)	0.67
Nitrite - NO <sub>2</sub> (ppm as N)	< 0.015
Phosphate-PO <sub>4</sub> (ppm as PO <sub>4</sub> )	1.02
Sulfate - SO <sub>4</sub> (ppm as SO <sub>4</sub> )	25.3
Total Hardness (grains per gallon) EDTA method	4.68
Total Hardness (ppm as CaCO <sub>3</sub> ) EDTA method	80

## Chemical Water Quality - Inorganic Metals

## **Plant Effluent Average Value**

## **Chemical Element**

Aluminum-Al (ppm as Al)	0.02
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	25.7
Chloride-Cl (ppm as Cl)	25.0
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)	1.37
Manganese-Mn (ppm as Mn)	< 0.01
Sillca-Si (ppm as Si)	7.56
Sodium-Na (ppm as Na)	11.15
Zinc-Zn (ppm as Zn)	Not Detected
*ppm = parts per million	