

Minneapolis Water Works Monthly Plant Effluent Water Analysis for: August 2017

Physical and Chemical Water Qualit	Phy	vsical	and	Chemical	Water	Oual	lity
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	Plant Effluent Average Value
Temperature, River Water Average (°C)	25
Total Organic Carbon (ppm* as C)	4.72
Total Dissolved Solids (ppm)	181
Turbidity (NTU)	0.08
Alkalinity-Total (ppm as CaCO ₃)	45
Ammonia Nitrogen (ppm as N)	0.86
Chlorine Residual (ppm Cl as Cl ₂)	3.7
Fluoride-F (ppm as F)	0.69
рН	9.03
Nitrate - NO ₃ (ppm as N)	0.44
Nitrite - NO ₂ (ppm as N)	<0.015
Phosphate-PO ₄ (ppm as PO ₄)	0.86
Sulfate - SO ₄ (ppm as SO ₄)	28.2
Total Hardness (grains per gallon) EDTA me	ethod 4.68
Total Hardness (ppm as CaCO ₃) EDTA meth	nod 80
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Chemical Water Quality - Inorganic Metals

Plant Effluent Average Value

Chemical Element

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)	29.1
Chloride-Cl (ppm as Cl)	28.5
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)	1.71
Manganese-Mn (ppm as Mn)	< 0.01
Sillca-Si (ppm as Si)	8.5
Sodium-Na (ppm as Na)	15.5
Zinc-Zn (ppm as Zn)	Not Detected
*ppm = parts per million	