

Minneapolis Water Works Monthly Plant Effluent Water Analysis for: June 2015

Physical and Chemical Water Quality

	Plant Effluent Average Value
Temperature, River Water Average (°C)	23.7
Total Organic Carbon (ppm* as C)	5.76
Total Dissolved Solids (ppm)	188
Turbidity (NTU)	0.06
Alkalinity-Total (ppm as CaCO ₃)	44
Ammonia Nitrogen (ppm as N)	0.87
Chlorine Residual (ppm Cl as Cl ₂)	3.7
Fluoride-F (ppm as F)	0.82
рН	8.96
Nitrate - NO ₃ (ppm as N)	0.52
Nitrite - NO ₂ (ppm as N)	0.023
Phosphate-PO ₄ (ppm as PO ₄)	0.87
Sulfate - SO ₄ (ppm as SO ₄)	24.2
Total Hardness (grains per gallon) EDTA method	4.3
Total Hardness (ppm as CaCO ₃) EDTA method	73

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)	27.2
Chloride-Cl (ppm as Cl)	23.6
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)	0.83
Manganese-Mn (ppm as Mn)	< 0.01
Sillca-Si (ppm as Si)	8.39
Sodium-Na (ppm as Na)	10.1
Zinc-Zn (ppm as Zn)	Not Detected
*ppm = parts per million	