



Minneapolis Water Works

Monthly Plant Effluent Water Analysis for:

April 2015

Physical and Chemical Water Quality

	<u>Plant Effluent Average Value</u>
Temperature, River Water Average (°C)	12.8
Total Organic Carbon (ppm* as C)	3.10
Total Dissolved Solids (ppm)	157
Turbidity (NTU)	0.007
Alkalinity-Total (ppm as CaCO ₃)	39
Ammonia Nitrogen (ppm as N)	0.84
Chlorine Residual (ppm Cl as Cl ₂)	3.8
Fluoride-F (ppm as F)	0.98
pH	8.94
Nitrate - NO ₃ (ppm as N)	0.90
Nitrite - NO ₂ (ppm as N)	Not Detected
Phosphate-PO ₄ (ppm as PO ₄)	0.87
Sulfate - SO ₄ (ppm as SO ₄)	28.9
Total Hardness (grains per gallon) EDTA method	4.5
Total Hardness (ppm as CaCO ₃) EDTA method	77

Chemical Water Quality - Inorganic Metals

	<u>Plant Effluent Average Value</u>
<u>Chemical Element</u>	
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)	27.7
Chloride-Cl (ppm as Cl)	28.6
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)	2.43
Manganese-Mn (ppm as Mn)	<0.01
Sillca-Si (ppm as Si)	4.42
Sodium-Na (ppm as Na)	13.4
Zinc-Zn (ppm as Zn)	Not Detected

*ppm = parts per million