

RECORD OF DATA FOR THE YEAR 2018 PLANT EFFLUENT WATER ANALYSIS

PARTS PER MILLION

<u>CHEMICAL ELEMENT</u>	<u>SYMBOL</u>	<u>MAXIMUM</u>	<u>MINIMUM</u>	<u>AVERAGE</u>
Silica	SiO ₂	11.1	6.2	9.2
Aluminum	Al	0.13	<0.01	0.03
Calcium	Ca	37.8	23.7	32.3
Magnesium	Mg	4.8	0.8	2.3
Sulfate	SO ₄	30.0	20.9	25.4
Chloride	Cl	34.0	22.1	27.4
Iron	Fe	<0.01	<0.01	<0.01
Manganese	Mn	<0.01	<0.01	<0.01
Fluoride	F	1.25	0.34	0.72
Sodium	Na	17.6	11.4	14.6
Total Alkalinity		72	32	50
Total Hardness (EDTA)		112	43	83
Total Residue		188	139	156
Hydrogen Ion Concentration	pH	9.36	8.66	8.98
Chlorine Residual Combined	NH ₂ Cl	4.5	1.9	3.9
Phosphate	PO ₄	1.11	0.70	0.84
Nitrate	NO ₃ -N	1.50	0.33	0.83

Submitted by: George Kraynick
 Water Quality Manager
 Minneapolis Water Treatment & Distribution Services Division
 4300 Marshall Street NE
 Minneapolis, Minnesota 55421-2598