



## Average Water Analysis Calendar Year 2016 Lake Michigan Filtration Plant

Parameter	Units	Raw Lake	Plant Tap	Distribution System
Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	120 (108 - 140)	111 (100 - 122)	114 (104 - 126)
Aluminum (Total)	mg/L	0.03 (<0.02 - 0.14)	0.05 (<0.02 - 0.11)	-
Calcium	mg/L	47 (38 - 62)	44 (38 - 58)	-
Carbon Dioxide	mg/L	1.3 (0.7 - 2.1)	4.7 (2.4 - 6.7)	-
Chloride (Cl)	mg/L	19.6 (11.7 - 51.5)	20.2 (11.20 - 50.8)	-
Chlorine, Free Available (as Cl <sub>2</sub> )	mg/L	-	1.53 (1.44 - 1.92)	0.91 (<0.05 - 1.85)
Coliforms (Total)	CFU/ 100mls	3 (<1 - 72)	<1	<1
Color (True)	Color units	<5 (<5 - 12)	<5 (<5 - 6)	-
Conductivity (@ 25° C)	µmhos/cm	291 (017 - 420)	305 (18 - 406)	-
Fluoride (as F-)	mg/L	0.17 (0.13 - 0.21)	0.74 (0.22 - 0.91)	0.58 (0.12 - 0.87)
Hardness (Total, as CaCO <sub>3</sub> )	mg/L	156 (134 - 204)	158 (132 - 198)	-
Hardness (Total, as CaCO <sub>3</sub> )	grains per gallon	9.1 (8 - 12)	9.2 (8 - 12)	-
Heterotrophic Plate Count	CFU/ml	54 (<1 - 1380)	<1 (<1 - 84)	93% *
Iron (Total, as Fe)	mg/L	<0.02 (<0.02 - 0.25)	<0.02 (<0.02 - 0.10)	-
Magnesium	mg/L	9.2 (2.4 - 15.6)	10.7 (4.4 - 16.5)	-
Nitrate (as N)	mg/L	-	<0.4	-
Odor (T.O.N.)	T.O.N.	1 (0 - 2)	0 (0 - 1)	-
pH (Ambient)	pH units	8.29 (7.72 - 8.56)	7.63 (6.67 - 7.98)	7.65 (7.44 - 7.89)
Phosphorus (Total, as PO <sub>4</sub> )	mg/L	-	1.80 (1.28 - 2.43)	1.63 (1.38 - 2.18)
Sodium	mg/L	-	11	-
Sulfate (as SO <sub>4</sub> )	mg/L	-	30	-
Total Solids	mg/L	191 (166 - 242)	194 (179 - 213)	-
Turbidity	NTUs	1.3 (0.10 - 10)	0.06 (<0.05 - 0.33)	-

\* Percent of samples when HPC test result was below detection.