

**METROPOLITAN UTILITIES DISTRICT OF OMAHA
REPORT OF WATER ANALYSIS**

Platte Plant South

Monthly Averages

Source: Finished Water

Date: October 2017

Temperature	<u>21.1</u>	° C
Turbidity (NTU)	<u>0.06</u>	Units
Total Organic Carbon	<u>1.7</u>	mg/L
Color	<u>4</u>	Units
Dissolved Oxygen (O ₂)	<u>4.4</u>	mg/L
Langelier Index	<u>1.17</u>	
UV-ABS @ 254 nm	<u>6.0</u>	ABS/m
Specific Conductance @ 25 °C	<u>500</u>	µmhos
Total Dissolved Solids	<u>385</u>	mg/L
Silica (SiO ₂)	<u>21.8</u>	mg/L
pH	<u>8.83</u>	mg/L
Alkalinity (CaCO ₃)		
Phenolphthalein (P)	<u>10</u>	mg/L
Total (M)	<u>130</u>	mg/L
Total Hardness (CaCO ₃)	<u>152</u>	mg/L
Carbonate	<u>130</u>	mg/L
Non-carbonate	<u>22</u>	mg/L
Nitrogen (N)		
Ammonia	<u>0.02</u>	mg/L
Nitrite		mg/L
Nitrate	<u>1.22</u>	mg/L
Chlorine (Cl ₂)		
Free Residual	<u>0.00</u>	mg/L
Total Residual	<u>2.41</u>	mg/L
Surfactants (MBAS)		mg/L
Radioactivity :		
Gross Alpha & Beta		pCi/L
Iodine 131		pCi/L
Radium 226		pCi/L
Strontium 90		pCi/L
Tritium		pCi/L

Cations :			
Calcium	(Ca)	<u>44</u>	mg/L
Magnesium	(Mg)	<u>10</u>	mg/L
Sodium	(Na)	<u>46</u>	mg/L
Potassium	(K)	<u>9</u>	mg/L

Anions :			
Bicarbonate	(HCO ₃)	<u>134</u>	mg/L
Carbonate	(CO ₃)	<u>12.0</u>	mg/L
Hydroxide	(OH)	<u><0.1</u>	mg/L
Fluoride	(F)	<u>0.70</u>	mg/L
Chloride	(Cl)	<u>35</u>	mg/L
Bromide	(Br)		mg/L
Nitrite	(NO ₂)	<u>0.00</u>	mg/L
Nitrate	(NO ₃)	<u>5.40</u>	mg/L
Phosphate-ortho	(PO ₄)	<u>0.08</u>	mg/L
Sulfate	(SO ₄)	<u>66</u>	mg/L

Trace Inorganics :			
Aluminum	(Al)	<u>< 0.01</u>	mg/L
Copper	(Cu)	<u>< 0.01</u>	mg/L
Iron	(Fe)	<u>0.01</u>	mg/L
Lithium	(Li)	<u>0.02</u>	mg/L
Manganese	(Mn)	<u>0.01</u>	mg/L
Strontium	(Sr)	<u>0.27</u>	mg/L
Zinc	(Zn)	<u>< 0.01</u>	mg/L

Antimony	(Sb)	<u>< 1.0</u>	µg/L
Arsenic	(As)	<u>4.25</u>	µg/L
Barium	(Ba)	<u>76.4</u>	µg/L
Beryllium	(Be)	<u>< 1.0</u>	µg/L
Cadmium	(Cd)	<u>< 1.0</u>	µg/L
Chromium	(Cr)	<u>< 1.0</u>	µg/L
Lead	(Pb)	<u>< 1.0</u>	µg/L
Mercury	(Hg)	<u>-</u>	µg/L
Nickel	(Ni)	<u>< 1.0</u>	µg/L
Selenium	(Se)	<u>< 5.0</u>	µg/L
Thallium	(Tl)	<u>< 1.0</u>	µg/L

Bacteriological Quality : Distribution System
Meets U.S.E.P.A. drinking water standards:
T. Coli - 0.34%; E. Coli - Absent
Giardia - N.D. Cryptosporidium - N.D.

Organics :
Atrazine _____ µg/L
Metolachlor _____ µg/L

Chris Griesman
Water Analyst