

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

Platte South Plant

Monthly Averages

Source: Finished Water

Date: September 2023

Temperature	<u>24.4</u>	°C
Turbidity (NTU)	<u>0.04</u>	Units
Total Organic Carbon	<u>2.4</u>	mg/L
Color	<u>4</u>	Units
Dissolved Oxygen (O <sub>2</sub> )	<u>4.7</u>	mg/L
Langelier Index	<u>1.43</u>	
UV-ABS @ 254 nm	<u>6.7</u>	ABS/m
Specific Conductance @ 25 °C	<u>684</u>	µmhos
Total Dissolved Solids	<u>480</u>	mg/L
Silica (SiO <sub>2</sub> )	<u>28</u>	mg/L
pH	<u>9.01</u>	mg/L
Alkalinity (CaCO <sub>3</sub> )		
Phenolphthalein (P)	<u>18</u>	mg/L
Total (M)	<u>135</u>	mg/L
Total Hardness (CaCO <sub>3</sub> )	<u>160</u>	mg/L
Carbonate	<u>135</u>	mg/L
Non-carbonate	<u>25</u>	mg/L
Nitrogen (N)		
Ammonia	<u>&lt;0.05</u>	mg/L
Nitrite	<u>&lt;0.02</u>	mg/L
Nitrate	<u>&lt;0.10</u>	mg/L
Chlorine (Cl <sub>2</sub> )		
Free Residual	<u>-</u>	mg/L
Total Residual	<u>2.40</u>	mg/L
Surfactants (MBAS)	<u>-</u>	mg/L
Radioactivity :		
Gross Alpha & Beta	<u>-</u>	pCi/L
Iodine 131	<u>-</u>	pCi/L
Radium 226	<u>-</u>	pCi/L
Strontium 90	<u>-</u>	pCi/L
Tritium	<u>-</u>	pCi/L

Cations :			
Calcium	(Ca)	<u>48</u>	mg/L
Magnesium	(Mg)	<u>9.5</u>	mg/L
Sodium	(Na)	<u>77</u>	mg/L
Potassium	(K)	<u>12</u>	mg/L

Anions :			
Bicarbonate	(HCO <sub>3</sub> )	<u>121</u>	mg/L
Carbonate	(CO <sub>3</sub> )	<u>21.6</u>	mg/L
Hydroxide	(OH)	<u>0.2</u>	mg/L
Fluoride	(F)	<u>0.7</u>	mg/L
Chloride	(Cl)	<u>97</u>	mg/L
Bromide	(Br)	<u>0.02</u>	mg/L
Nitrite	(NO <sub>2</sub> )	<u>&lt;0.07</u>	mg/L
Nitrate	(NO <sub>3</sub> )	<u>&lt;0.44</u>	mg/L
Phosphate	(PO <sub>4</sub> )	<u>0.47</u>	mg/L
Sulfate	(SO <sub>4</sub> )	<u>64</u>	mg/L

Trace Inorganics :			
Aluminum	(Al)	<u>&lt;0.01</u>	mg/L
Copper	(Cu)	<u>0.003</u>	mg/L
Iron	(Fe)	<u>0.092</u>	mg/L
Lithium	(Li)	<u>0.022</u>	mg/L
Manganese	(Mn)	<u>&lt;0.001</u>	mg/L
Strontium	(Sr)	<u>0.337</u>	mg/L
Zinc	(Zn)	<u>0.005</u>	mg/L

Antimony	(Sb)	<u>&lt;1.0</u>	µg/L
Arsenic	(As)	<u>3.75</u>	µg/L
Barium	(Ba)	<u>72.2</u>	µg/L
Beryllium	(Be)	<u>&lt;1.0</u>	µg/L
Cadmium	(Cd)	<u>&lt;1.0</u>	µg/L
Chromium	(Cr)	<u>&lt;1.0</u>	µg/L
Lead	(Pb)	<u>&lt;1.0</u>	µg/L
Mercury	(Hg)	<u>-</u>	µg/L
Nickel	(Ni)	<u>1.48</u>	µg/L
Selenium	(Se)	<u>&lt;5.0</u>	µg/L
Thallium	(Tl)	<u>&lt;1.0</u>	µg/L

Bacteriological Quality : Distribution System  
Meets U.S.E.P.A. drinking water standards:  
T. Coli - 0.70%; E. Coli - Absent  
Giardia - N.D. Cryptosporidium - N.D.

Organics :		
Atrazine		<u>-</u> µg/L
Metolachlor		<u>-</u> µg/L

N.D. = Not Detected

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