

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

Platte South Plant

Monthly Averages

Source: Finished Water

Date: June 2022

Temperature	<u>15.9</u>	°C
Turbidity (NTU)	<u>0.03</u>	Units
Total Organic Carbon	<u>2.1</u>	mg/L
Color	<u>1</u>	Units
Dissolved Oxygen (O ₂)	<u>5.4</u>	mg/L
Langelier Index	<u>1.33</u>	
UV-ABS @ 254 nm	<u>4.7</u>	ABS/m
Specific Conductance @ 25 °C	<u>475</u>	µmhos
Total Dissolved Solids	<u>392</u>	mg/L

Silica (SiO₂) 24.9 mg/L

pH 8.95 mg/L

Alkalinity (CaCO ₃)		
Phenolphthalein (P)	<u>18</u>	mg/L
Total (M)	<u>144</u>	mg/L

Total Hardness (CaCO ₃)	<u>169</u>	mg/L
Carbonate	<u>144</u>	mg/L
Non-carbonate	<u>25</u>	mg/L

Nitrogen (N)		
Ammonia	<u><0.05</u>	mg/L
Nitrite	<u><0.02</u>	mg/L
Nitrate	<u>0.91</u>	mg/L

Chlorine (Cl ₂)		
Free Residual	<u>0.00</u>	mg/L
Total Residual	<u>2.42</u>	mg/L

Surfactants (MBAS) - 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

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.

N.D. = Not Detected

Cations :			
Calcium	(Ca)	<u>50</u>	mg/L
Magnesium	(Mg)	<u>10</u>	mg/L
Sodium	(Na)	<u>40</u>	mg/L
Potassium	(K)	<u>9.4</u>	mg/L

Anions :			
Bicarbonate	(HCO ₃)	<u>132</u>	mg/L
Carbonate	(CO ₃)	<u>21.6</u>	mg/L
Hydroxide	(OH)	<u><0.1</u>	mg/L
Fluoride	(F)	<u>0.66</u>	mg/L
Chloride	(Cl)	<u>32</u>	mg/L
Bromide	(Br)	<u>0.02</u>	mg/L
Nitrite	(NO ₂)	<u><0.07</u>	mg/L
Nitrate	(NO ₃)	<u>4.03</u>	mg/L
Phosphate	(PO ₄)	<u>0.45</u>	mg/L
Sulfate	(SO ₄)	<u>66</u>	mg/L

Trace Inorganics :			
Aluminum	(Al)	<u><0.01</u>	mg/L
Copper	(Cu)	<u>0.001</u>	mg/L
Iron	(Fe)	<u>0.088</u>	mg/L
Lithium	(Li)	<u>0.020</u>	mg/L
Manganese	(Mn)	<u><0.001</u>	mg/L
Strontium	(Sr)	<u>0.300</u>	mg/L
Zinc	(Zn)	<u><0.005</u>	mg/L

Antimony	(Sb)	<u>< 1.0</u>	µg/L
Arsenic	(As)	<u>4.00</u>	µg/L
Barium	(Ba)	<u>66.9</u>	µg/L
Beryllium	(Be)	<u>< 1.0</u>	µg/L
Cadmium	(Cd)	<u>< 1.0</u>	µg/L
Chromium	(Cr)	<u>1.03</u>	µg/L
Lead	(Pb)	<u>< 1.0</u>	µg/L
Mercury	(Hg)	<u>-</u>	µg/L
Nickel	(Ni)	<u>1.02</u>	µg/L
Selenium	(Se)	<u>5.20</u>	µg/L
Thallium	(Tl)	<u>< 1.0</u>	µg/L

Organics :			
Atrazine		<u>0.36</u>	µg/L
Metolachlor		<u>-</u>	µg/L

Crystal Badger
Water Analyst