

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

Florence Plant

Monthly Averages

Source: Finished Water

Date: November, 2022

Temperature	<u>7.4</u>	° C
Turbidity (NTU)	<u>0.05</u>	Units
Color	<u>1</u>	Units
Dissolved Oxygen (O <sub>2</sub> )	<u>10.7</u>	mg/L
Langelier Index	<u>0.91</u>	
UV-ABS @ 254 nm	<u>5.0</u>	ABS/m
Total Organic Carbon	<u>2.7</u>	mg/L
Specific Conductance @ 25 °C	<u>633</u>	µmhos
Dissolved Solids (Calculated)	<u>500</u>	mg/L
Silica (SiO <sub>2</sub> )	<u>4.1</u>	mg/L

pH 9.09 Units

Alkalinity (CaCO <sub>3</sub> )		
Phenolphthalein (P)	<u>11</u>	mg/L
Total (M)	<u>84</u>	mg/L

Total Hardness (CaCO <sub>3</sub> )	<u>180</u>	mg/L
Carbonate	<u>84</u>	mg/L
Non-carbonate	<u>96</u>	mg/L

Nitrogen (N)		
Ammonia	<u>&lt;0.05</u>	mg/L
Nitrite	<u>&lt;0.02</u>	mg/L
Nitrate	<u>0.20</u>	mg/L

Chlorine (Cl <sub>2</sub> )		
Free Residual	<u>0.00</u>	mg/L
Total Residual	<u>2.27</u>	mg/L

Surfactants (MBAS) - mg/L

Radioactivity :		
Gross Alpha (α)	<u>0.4</u>	pCi/L
Beta Emitters (β)	<u>3.8</u>	pCi/L
Radium 226+228	<u>-</u>	pCi/L
Uranium	<u>-</u>	mg/L

Cations :		
Calcium (Ca)	<u>36</u>	mg/L
Magnesium (Mg)	<u>22</u>	mg/L
Sodium (Na)	<u>80</u>	mg/L
Potassium (K)	<u>5.3</u>	mg/L

Anions :		
Bicarbonate (HCO <sub>3</sub> )	<u>76</u>	mg/L
Carbonate (CO <sub>3</sub> )	<u>13</u>	mg/L
Hydroxide (OH)	<u>&lt;0.1</u>	mg/L
Fluoride (F)	<u>0.8</u>	mg/L
Chloride (Cl)	<u>18</u>	mg/L
Bromide (Br)	<u>0.03</u>	mg/L
Nitrite (NO <sub>2</sub> )	<u>&lt;0.07</u>	mg/L
Nitrate (NO <sub>3</sub> )	<u>0.89</u>	mg/L
Phosphate (PO <sub>4</sub> )	<u>&lt;0.10</u>	mg/L
Sulfate (SO <sub>4</sub> )	<u>243</u>	mg/L

Trace Inorganics :		
Aluminum (Al)	<u>0.236</u>	mg/L
Copper (Cu)	<u>0.002</u>	mg/L
Iron (Fe)	<u>0.064</u>	mg/L
Lithium (Li)	<u>0.053</u>	mg/L
Manganese (Mn)	<u>&lt;0.001</u>	mg/L
Strontium (Sr)	<u>0.424</u>	mg/L
Zinc (Zn)	<u>&lt;0.005</u>	mg/L

Antimony (Sb)	<u>&lt; 1.0</u>	µg/L
Arsenic (As)	<u>&lt;1.0</u>	µg/L
Barium (Ba)	<u>21.2</u>	µg/L
Beryllium (Be)	<u>&lt; 1.0</u>	µg/L
Cadmium (Cd)	<u>&lt; 1.0</u>	µg/L
Chromium (Cr)	<u>1.01</u>	µg/L
Lead (Pb)	<u>&lt; 1.0</u>	µg/L
Mercury (Hg)	<u>-</u>	µg/L
Nickel (Ni)	<u>1.46</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 USEPA drinking water standards:  
 T. coli: 0.00%    E. coli: absent  
 Cryptosporidium: N.D.    Giardia: N.D.

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

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Chemist II

N. D. = Not Detected