

METROPOLITAN UTILITIES DISTRICT OF OMAHA
REPORT OF WATER ANALYSIS

Florence Plant

Monthly Averages

Source: Finished Water

Date: April, 2025

Temperature	<u>12.0</u>	° C
Turbidity (NTU)	<u>0.04</u>	Units
Color	<u>1</u>	Units
Dissolved Oxygen (O ₂)	<u>5.1</u>	mg/L
Langelier Index	<u>0.80</u>	
UV-ABS @ 254 nm	<u>4.3</u>	ABS/m
Total Organic Carbon	<u>2.5</u>	mg/L
Specific Conductance @ 25 °C	<u>600</u>	µmhos
Dissolved Solids (Calculated)	<u>434</u>	mg/L
Silica (SiO ₂)	<u>4.7</u>	mg/L

pH 9.05 Units

Alkalinity (CaCO ₃)		
Phenolphthalein (P)	<u>8</u>	mg/L
Total (M)	<u>56</u>	mg/L

Total Hardness (CaCO ₃)	<u>154</u>	mg/L
Carbonate	<u>56</u>	mg/L
Non-carbonate	<u>98</u>	mg/L

Nitrogen (N)		
Ammonia	<u><0.05</u>	mg/L
Nitrite	<u><0.02</u>	mg/L
Nitrate	<u>0.75</u>	mg/L

Chlorine (Cl ₂)		
Free Residual	<u>0.00</u>	mg/L
Total Residual	<u>2.46</u>	mg/L

Surfactants (MBAS) - mg/L

Radioactivity :		
Gross Alpha (α)	<u>0.2</u>	pCi/L
Beta Emitters (β)	<u>5.8</u>	pCi/L
Radium 226+228	<u>-</u>	pCi/L
Uranium	<u>-</u>	mg/L

Bacteriological Quality : Distribution System

Meets USEPA drinking water standards:

T. coli: 0.31% E. coli: absent

Cryptosporidium: N.D. Giardia: N.D.

Cations :		
Calcium	(Ca)	<u>38</u> mg/L
Magnesium	(Mg)	<u>14</u> mg/L
Sodium	(Na)	<u>72</u> mg/L
Potassium	(K)	<u>5.6</u> mg/L

Anions :		
Bicarbonate	(HCO ₃)	<u>49</u> mg/L
Carbonate	(CO ₃)	<u>10</u> mg/L
Hydroxide	(OH)	<u><0.1</u> mg/L
Fluoride	(F)	<u>0.64</u> mg/L
Chloride	(Cl)	<u>21</u> mg/L
Bromide	(Br)	<u>0.02</u> mg/L
Nitrite	(NO ₂)	<u><0.07</u> mg/L
Nitrate	(NO ₃)	<u>3.30</u> mg/L
Phosphate	(PO ₄)	<u><0.10</u> mg/L
Sulfate	(SO ₄)	<u>215</u> mg/L

Trace Inorganics :		
Aluminum	(Al)	<u>0.062</u> mg/L
Copper	(Cu)	<u>0.002</u> mg/L
Iron	(Fe)	<u>0.073</u> mg/L
Lithium	(Li)	<u>0.052</u> mg/L
Manganese	(Mn)	<u><0.001</u> mg/L
Strontium	(Sr)	<u>0.347</u> mg/L
Zinc	(Zn)	<u><0.005</u> mg/L

Antimony	(Sb)	<u>< 1.0</u> µg/L
Arsenic	(As)	<u><1.0</u> µg/L
Barium	(Ba)	<u>20.5</u> µg/L
Beryllium	(Be)	<u>< 1.0</u> µg/L
Cadmium	(Cd)	<u>< 1.0</u> µg/L
Chromium	(Cr)	<u>1.29</u> µg/L
Lead	(Pb)	<u>< 1.0</u> µg/L
Mercury	(Hg)	<u>-</u> µg/L
Nickel	(Ni)	<u>1.12</u> µg/L
Selenium	(Se)	<u>< 5.0</u> µg/L
Thallium	(Tl)	<u>< 1.0</u> µg/L

Organics :

Atrazine	<u><0.1</u>	µg/L
Metolachlor	<u>-</u>	µg/L

Chris Griesman

Chemist II

N. D. = Not Detected