

** NORTH TEXAS MUNICIPAL WATER DISTRICT - Tawakoni
Water Analysis
Sep-2021

<u>Mineral Analysis</u>	<u>Raw</u>	<u>Treated</u>	<u>Standards</u>			
			<u>EPA</u>	<u>EPA</u>	<u>TCEQ</u>	<u>TCEQ</u>
	(mg/L)	(mg/L)	<u>Primary</u>	<u>Secondary</u>	<u>Primary</u>	<u>Secondary</u>
			(mg/L)	(mg/L)	(mg/L)	(mg/L)
Residue on Evaporation	138	208		500		1000
Silica (SiO ₂)	5.79	5.53				
Iron (Fe)	<0.200	0.275		0.3		0.3
Calcium (Ca)	23.8	41.7				
Magnesium (Mg)	2.58	2.77				
Sodium (Na)	9.89	14.9				
Potassium (K)	3.99	3.87				
Sulfate (SO ₄)	8.33	66.5		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.169	0.367	10		10	
Chloride (Cl)	5.7	12.4		250		300
Fluoride (F)	0.158	0.494	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.0750	<0.0100				
	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)
Total Alkalinity	84.1 *	64.0 *				
Total Hardness	74.0	108				
Langelier Index		0.0700				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00517	0.00057	0.01		0.01	
Barium (Ba)	0.0656	0.0574	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	<0.00100	0.0112	1.3	1	1.3	1.0
Iron (Fe)	<0.200	0.275		0.3		0.3
Lead (Pb)	<0.000500	<0.000500	0.015		0.015	
Manganese (Mn)	0.0543	0.00808		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00121	0.00469				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	<0.00250	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.59 *	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.70	8.00 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	199	318				
Turbidity (NTU)	2.1 *	0.05 *	0.3		0.3	
Threshold Odor Number	1	1				3

Note 1: National Primary Drinking Water Regulations or Primary Standards are legally enforceable standards. National Secondary Drinking Water Regulations or Secondary Standards are non-enforceable guidelines regulating contaminants that may cause cosmetic or aesthetic effects In Drinking Water.

Note 2: TCEQ Primary Standards are the maximum contaminant level allowed for each constituent. TCEQ Primary Standards are legally enforceable standards.

Note 3: * Identifies Monthly Average Process analyses. ** No odor analysis performed.