

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

Mineral Analysis	Raw	Treated	Standards			
			EPA Primary	EPA Secondary	TCEQ Primary	TCEQ Secondary
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Residue on Evaporation	139	195		500		1000
Silica (SiO ₂)	2.49	2.73				
Iron (Fe)	0.275	0.296		0.3		0.3
Calcium (Ca)	30.3	40.9				
Magnesium (Mg)	2.88	2.97				
Sodium (Na)	11.8	15.1				
Potassium (K)	4.10	4.13				
Sulfate (SO ₄)	10.7	64.5		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.236	0.377	10		10	
Chloride (Cl)	6.7	16.8		250		300
Fluoride (F)	0.164	0.528	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.0630	<0.0100				
	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)
Total Alkalinity	86.4 *	67.0 *				
Total Hardness	74.0	110				
Langelier Index		-0.2920				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00179	0.00067	0.01		0.01	
Barium (Ba)	0.0856	0.0624	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	0.00903	1.3	1	1.3	1.0
Iron (Fe)	0.275	0.296		0.3		0.3
Lead (Pb)	<0.000500	<0.000500	0.015		0.015	
Manganese (Mn)	0.0370	0.00249		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00204	0.00501				
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)	--	3.60 *	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.80	7.90 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	204	312				
Turbidity (NTU)	7.2 *	0.07 *	0.3		0.3	
Threshold Odor Number	4	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.