

NORTH TEXAS MUNICIPAL WATER DISTRICT - Tawakoni (revised)
Water Analysis
Feb-2023

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	123	184		500		1000
Silica (SiO ₂)	2.36	2.17				
Iron (Fe)	<0.200	<0.200		0.3		0.3
Calcium (Ca)	29.0	43.2				
Magnesium (Mg)	2.82	2.83				
Sodium (Na)	12.5	17.8				
Potassium (K)	3.94	3.87				
Sulfate (SO ₄)	12.0	62.4		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.322	0.404	10		10	
Chloride (Cl)	8.3	15.2		250		300
Fluoride (F)	0.177	0.714	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.0350	<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	87.9 *	71.0 *				
Total Hardness	76.0	104				
Langelier Index		0.18				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00140	0.00057	0.01		0.01	
Barium (Ba)	0.0701	0.0598	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	0.00683	1.3	1	1.3	1.0
Iron (Fe)	<0.200	<0.200		0.3		0.3
Lead (Pb)	<0.000500	<0.000500	0.015		0.015	
Manganese (Mn)	0.0303	<0.0250		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00208	0.00483				
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)	--	3.72 *	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.40	7.90 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	294	293				
Turbidity (NTU)	4.1 *	0.05 *	0.3		0.3	
Threshold Odor Number	<1.00	<1.00				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.