

**** NORTH TEXAS MUNICIPAL WATER DISTRICT - Tawakoni**
Water Analysis
May-2020

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	122	155		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	<0.200	<0.200		0.3		0.3
Calcium (Ca)	24.8	38.7				
Magnesium (Mg)	2.38	2.60				
Sodium (Na)	8.03	13.0				
Potassium (K)	3.62	3.75				
Sulfate (SO ₄)	9.47	60.0		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.156	0.283	10		10	
Chloride (Cl)	5.1	13.3		250		300
Fluoride (F)	0.142	0.500	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.0480	0.0120				
	(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	75.6 *	55.5 *				
Total Hardness	73.8	102				
Langelier Index		-2.3230				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00126	<0.00050	0.01		0.01	
Barium (Ba)	0.0525	0.0564	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00110	0.0214	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)	0.0194	0.00356		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00186	0.00486				
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)	--	3.35 *	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.90	7.80 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	188	292				
Turbidity (NTU)	4.6 *	0.05 *	0.3		0.3	
Threshold Odor Number	3.0	1.0				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.