

** NORTH TEXAS MUNICIPAL WATER DISTRICT - Tawakoni
 Water Analysis
 Feb-2019

<u>Mineral Analysis</u>	<u>Raw</u>	<u>Treated</u>	<u>Standards</u>			
			<u>EPA Primary</u>	<u>EPA Secondary</u>	<u>TCEQ Primary</u>	<u>TCEQ Secondary</u>
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Residue on Evaporation	140	214		500		1000
Silica (SiO ₂)	4.31	4.01				
Iron (Fe)	0.544	0.234		0.3		0.3
Calcium (Ca)	26.4	45.7				
Magnesium (Mg)	2.72	2.67				
Sodium (Na)	9.43	15.7				
Potassium (K)	4.04	3.61				
Sulfate (SO ₄)	7.90	60.1		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.373	0.473	10		10	
Chloride (Cl)	4.9	11.9		250		300
Fluoride (F)	0.145	0.209	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.0670	<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	75.1 *	52.5 *				
Total Hardness	83.6	112				
Langelier Index		-2.3420				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00160	<0.00050	0.01		0.01	
Barium (Ba)	0.0685	0.0553	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00272	0.00943	1.3	1	1.3	1.0
Iron (Fe)	0.544	0.234		0.3		0.3
Lead (Pb)	<0.000500	<0.000500	0.015		0.015	
Manganese (Mn)	0.0351	0.00388		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00231	0.00548				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00257	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.41 *	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.60	8.10 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	187	298				
Turbidity (NTU)	13.5 *	0.04 *	0.3		0.3	
Threshold Odor Number	3.0	3.0				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.