

**North Texas Municipal Water District
Water Analysis
Aug-2008**

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	214	270		500		1000
Silica (SiO ₂)	6.61	5.65				
Iron (Fe)	<2.00	<0.200		0.3		0.3
Calcium (Ca)	39.5	46.6				
Magnesium (Mg)	4.38	4.38				
Sodium (Na)	25.6	36.3				
Potassium (K)	4.34	4.51				
Bicarbonates (HCO ₃)	113	101				
Carbonates (CO ₃)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO ₄)	30.3	65.5		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.178	<0.0400	10		10	
Chloride (Cl)	25.0	37.0		250		300
Fluoride (F)	0.266	0.461	4.0	2.0		2.0
Phosphates (PO ₄)	0.0700	<0.0500				

	(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	92.1	83.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	21.5	48.7				
Total Hardness	114	132				
Langelier Index	-	[+ 0.195]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00551	<0.00500	0.01		0.01	
Barium (Ba)	0.0481	0.0473	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00771	0.00764	1.3		1.3	1.0
Iron (Fe)	<2.00	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0384	0.0363		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00312	0.00287				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.0100	<0.0100		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.94*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	7.43*	7.92*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	346	458				
Turbidity (NTU)	8.22	0.165*	0.3		0.3	
Threshold Odor Number	12E	4C				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.