

**North Texas Municipal Water District
Water Analysis
Dec-06**

Mineral Analysis	Raw (mg/L)	Treated (mg/L)	Standards (mg/L)
Residue on Evaporation	604	684	
Silica (SiO ₂)	3.25	2.88	
Iron (Fe)	0.467	0.00987	0.3
Calcium (Ca)	56.3	62.7	
Magnesium (Mg)	12.3	12.6	
Sodium (Na)	111	129	
Potassium (K)	6.12	6.14	
Bicarbonates (HCO ₃)	105	89.2	
Carbonates (CO ₃)	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO ₄)	148	204	300
Nitrite (NO ₂)	0.0281	0.00247	
Nitrate (NO ₃)	0.766	0.502	
Chloride (Cl)	192	208	300
Fluoride (F)	0.369	0.737	2
Phosphates (PO ₄)	0.079	0.00244	

	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)
Total Alkalinity	85.7	73	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	131	163	
Total Hardness	217	236	
Langelier Index		0.143	

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.0017	<0.00100	0.05
Barium (Ba)	0.083	0.0754	1
Cadmium (Cd)	<0.000229	<0.000229	0.01
Chromium (Cr)	<0.00279	<0.00279	0.05
Copper (Cu)	0.00468	0.0133	1
Iron (Fe)	0.467	0.00987	0.3
Lead (Pb)	0.000542	0.0000703	0.05
Manganese (Mn)	0.0762	0.00254	0.05
Mercury (Hg)	<0.000100	<0.000100	0.002
Nickel (Ni)	0.0048	0.00382	0.1
Selenium (Se)	0.00156	0.00124	
Silver (Ag)	0.00000652	0.0000041	0.05
Zinc (Zn)	0.00718	0.00674	5

Other Analyses

Chlorine Residual (mg/L)	0	3.08	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	7.86	8.02	6.5-8.5

Specific Conductance (Umhos)	1050	1160	
Turbidity (NTU)	13.5	0.108	0.3
Threshold Odor Number	17E	1C	3