

**North Texas Municipal Water District  
Water Analysis  
Jan-07**

**Mineral Analysis**

	<b>Raw (mg/L)</b>	<b>Treated (mg/L)</b>	<b>Standards (mg/L)</b>
Residue on Evaporation	458	536	
Silica (SiO <sub>2</sub> )	3.89	3.07	
Iron (Fe)	0.902	0.0282	0.3
Calcium (Ca)	54	57.1	
Magnesium (Mg)	8.51	8.97	
Sodium (Na)	80.5	95	
Potassium (K)	5.18	5.03	
Bicarbonates (HCO <sub>3</sub> )	117	102	
Carbonates (CO <sub>3</sub> )	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO <sub>4</sub> )	113	269	300
Nitrite (NO <sub>2</sub> )	0.0461	<0.0200	
Nitrate (NO <sub>3</sub> )	1.16	1.02	
Chloride (Cl)	124	214	300
Fluoride (F)	0.312	0.656	2
Phosphates (PO <sub>4</sub> )	0.0883	<0.0500	

**(mg/L as CaCO<sub>3</sub>) (mg/L as CaCO<sub>3</sub>) (mg/L as CaCO<sub>3</sub>)**

Total Alkalinity	95.5	83.8	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	120	147	
Total Hardness	216	230	
Langelier Index		-0.117	

**Trace Element Analysis**

	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>
Arsenic (As)	0.00186	<0.00100	0.05
Barium (Ba)	0.0665	0.059	1
Cadmium (Cd)	<0.000229	<0.000229	0.01
Chromium (Cr)	0.00153	<0.00279	0.05
Copper (Cu)	0.00356	0.0342	1
Iron (Fe)	0.902	0.0282	0.3
Lead (Pb)	0.000697	0.0000628	0.05
Manganese (Mn)	0.0456	0.00184	0.05
Mercury (Hg)	<0.000100	<0.000100	0.002
Nickel (Ni)	0.00553	0.00535	0.1
Selenium (Se)	0.000714	0.000939	
Silver (Ag)	0.0000175	0.00000421	0.05
Zinc (Zn)	0.00526	0.00433	5

**Other Analyses**

Chlorine Residual (mg/L)	0	2.92	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	7.79	7.84	6.5-8.5
Specific Conductance (Umhos)	792	933	
Turbidity (NTU)	21.8	0.0953	0.3
Threshold Odor Number	17E	2C	3