

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

<b>Mineral Analysis</b>	<b>Raw (mg/L)</b>	<b>Treated (mg/L)</b>	<b>Standards (mg/L)</b>
Residue on Evaporation	560.0	624.0	
Silica (SiO <sub>2</sub> )	8.81	7.35	
Iron (Fe)	0.157	<0.026	0.3
Calcium (Ca)	45.1	59.0	
Magnesium (Mg)	13.6	13.3	
Sodium (Na)	100	108	
Potassium (K)	6.88	6.83	
Bicarbonates (HCO <sub>3</sub> )	98.98	84.32	
Carbonates (CO <sub>3</sub> )	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO <sub>4</sub> )	116.0	208.0	300
Nitrite (NO <sub>2</sub> )	<0.02	<0.02	
Nitrate (NO <sub>3</sub> )	0.307	0.052	
Chloride (Cl)	189.0	229.0	300
Fluoride (F)	0.38	0.68	2
Phosphates (PO <sub>4</sub> )	0.0555	<0.01	

	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>
Total Alkalinity	81	69	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	107	147	
Total Hardness	188	216	
Langelier Index		(+0.2)	

**Trace Element Analysis**

	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>
Arsenic (As)	0.00349	<0.00326	0.05
Barium (Ba)	0.0743	0.0571	1
Cadmium (Cd)	0.000229	<0.000229	0.01
Chromium (Cr)	<0.00279	<0.00279	0.05
Copper (Cu)	0.00734	0.0304	1
Iron (Fe)	0.157	<0.026	0.3
Lead (Pb)	0.000204	0.0000525	0.05
Manganese (Mn)	0.0194	0.003	0.05
Mercury (Hg)	<0.0001	<0.0001	0.002
Nickel (Ni)	0.0029	0.00279	0.1
Selenium (Se)	<0.00159	<0.00159	
Silver (Ag)	<0.000013	<0.000013	0.05
Zinc (Zn)	0.00579	0.00683	5

**Other Analyses**

Chlorine Residual (mg/L)		2.88	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	7.6	8	6.5-8.5
Specific Conductance (Umhos)	927	1054	
Turbidity (NTU)	5.3	0.13	0.3
Threshold Odor Number	24E	1C	3