

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

Mineral Analysis

	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u> (mg/L)
Residue on Evaporation	464	528	
Silica (SiO ₂)	5.73	4.78	
Iron (Fe)	0.927	<0.200	0.3
Calcium (Ca)	61.9	66.6	
Magnesium (Mg)	9.82	10.1	
Sodium (Na)	88.7	91	
Potassium (K)	<20.0	<20.0	
Bicarbonates (HCO ₃)	126	109	
Carbonates (CO ₃)	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO ₄)	98.9	178	300
Nitrite (NO ₂)	0.0374	<0.0200	
Nitrate (NO ₃)	1.53	1.44	
Chloride (Cl)	114	127	300
Fluoride (F)	0.294	0.652	2
Phosphates (PO ₄)	0.0579	<0.0500	

	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)
Total Alkalinity	103	89	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	104	129	
Total Hardness	207	218	
Langelier Index		[+0.0400]	

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00168	<0.00100	0.05
Barium (Ba)	0.0734	0.0626	1
Cadmium (Cd)	<0.00100	<0.00100	0.01
Chromium (Cr)	0.00102	<0.00100	0.05
Copper (Cu)	0.00473	0.026	1
Iron (Fe)	0.927	<0.200	0.3
Lead (Pb)	<0.00100	<0.00100	0.05
Manganese (Mn)	0.037	0.00204	0.05
Mercury (Hg)	<0.000100	<0.000100	0.002
Nickel (Ni)	0.00381	0.00275	0.1
Selenium (Se)	<0.00100	<0.00100	
Silver (Ag)	<0.00100	<0.00100	0.05
Zinc (Zn)	0.00775	0.00763	5

Other Analyses

Chlorine Residual (mg/L)	0	2.83	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	7.85	7.93	6.5-8.5

Specific Conductance (Umhos)	781	904	
Turbidity (NTU)	16.2	0.105	0.3
Threshold Odor Number	10E	1C	3