

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

Mineral Analysis

	Raw (mg/L)	Treated (mg/L)	Standards (mg/L)
Residue on Evaporation	456	480	
Silica (SiO ₂)	9.83	7	
Iron (Fe)	0.297	<0.104	0.3
Calcium (Ca)	55.8	58.5	
Magnesium (Mg)	10.4	8.76	
Sodium (Na)	79.6	82.9	
Potassium (K)	6.29	5.18	
Bicarbonates (HCO ₃)	138.09	124.64	
Carbonates (CO ₃)	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO ₄)	97.2	123	300
Nitrite (NO ₂)	<0.02	<0.02	
Nitrate (NO ₃)	0.49	0.43	
Chloride (Cl)	109	120	300
Fluoride (F)	0.35	0.74	2
Phosphates (PO ₄)	0.0502	<0.01	

	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)
Total Alkalinity	113	102	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	77	106	
Total Hardness	190	208	
Langelier Index		(-0.2)	

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	<0.0020	<0.00194	0.05
Barium (Ba)	0.0609	0.0527	1
Cadmium (Cd)	<0.00013	<0.00013	0.01
Chromium (Cr)	<0.00258	<0.00258	0.05
Copper (Cu)	0.000434	0.0422	1
Iron (Fe)	0.297	<0.104	0.3
Lead (Pb)	0.000213	<0.00021	0.05
Manganese (Mn)	0.0149	0.000814	0.05
Mercury (Hg)	<0.0001	<0.0001	0.002
Nickel (Ni)	0.00346	0.00328	0.1
Selenium (Se)	<0.00102	<0.00102	
Silver (Ag)	<0.00025	<0.00025	0.05
Zinc (Zn)	<0.00643	<0.00643	5

Other Analyses

Chlorine Residual (mg/L)		2.79	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	8.1	7.8	6.5-8.5
Specific Conductance (Umhos)	742	788	
Turbidity (NTU)	19	0.14	0.3
Threshold Odor Number	24E	1C	3