

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

Mineral Analysis	Raw (mg/L)	Treated (mg/L)	Standards (mg/L)
Residue on Evaporation	468.0	494.0	
Silica (SiO ₂)	9.38	7.09	
Iron (Fe)	0.175	<0.104	0.3
Calcium (Ca)	49.2	59.1	
Magnesium (Mg)	8.47	8.45	
Sodium (Na)	80.4	82.8	
Potassium (K)	4.82	4.78	
Bicarbonates (HCO ₃)	111.2	106.31	
Carbonates (CO ₃)	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO ₄)	96.3	136.0	300
Nitrite (NO ₂)	<0.02	<0.02	
Nitrate (NO ₃)	0.22	0.038	
Chloride (Cl)	115.0	137.0	300
Fluoride (F)	0.38	0.75	2
Phosphates (PO ₄)	0.049	<0.01	

	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)
Total Alkalinity	91	87	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	87	112	
Total Hardness	178	199	
Langelier Index		(+0.3)	

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00333	<0.00194	0.05
Barium (Ba)	0.0678	0.0556	1
Cadmium (Cd)	<0.00013	<0.00013	0.01
Chromium (Cr)	<0.00258	<0.00258	0.05
Copper (Cu)	0.0121	0.0414	1
Iron (Fe)	0.175	<0.104	0.3
Lead (Pb)	0.00026	<0.00021	0.05
Manganese (Mn)	0.0275	0.000455	0.05
Mercury (Hg)	<0.0001	<0.0001	0.002
Nickel (Ni)	0.00501	0.0051	0.1
Selenium (Se)	0.00116	0.00104	
Silver (Ag)	<0.00025	<0.00025	0.05
Zinc (Zn)	<0.00643	<0.00643	5

Other Analyses

Chlorine Residual (mg/L)		2.94	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	7.6	8.1	6.5-8.5
Specific Conductance (Umhos)	795	859	
Turbidity (NTU)	5.7	0.14	0.3
Threshold Odor Number	12E	2C	3