

**North Texas Municipal Water District
Water Analysis
Oct-05**

Mineral Analysis

	Raw (mg/L)	Treated (mg/L)	Standards (mg/L)
Residue on Evaporation	318	630	
Silica (SiO ₂)	9.23	7.77	
Iron (Fe)	<0.104	<0.104	0.3
Calcium (Ca)	45.3	53.5	
Magnesium (Mg)	7.09	7.1	
Sodium (Na)	49.6	54.4	
Potassium (K)	5.09	5.15	
Bicarbonates (HCO ₃)	107.54	105.09	
Carbonates (CO ₃)	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO ₄)	85.5	138	300
Nitrite (NO ₂)	<0.02	<0.02	
Nitrate (NO ₃)	0.341	0.164	
Chloride (Cl)	94	132	300
Fluoride (F)	0.35	0.61	2
Phosphates (PO ₄)	0.055	<0.01	

(mg/L as CaCO₃) (mg/L as CaCO₃) (mg/L as CaCO₃)

Total Alkalinity	88	86	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	44	64	
Total Hardness	132	150	
Langelier Index		(+0.3)	

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00259	<0.00194	0.05
Barium (Ba)	0.0813	0.0524	1
Cadmium (Cd)	<0.00013	<0.00013	0.01
Chromium (Cr)	<0.00258	<0.00258	0.05
Copper (Cu)	0.00644	0.0465	1
Iron (Fe)	<0.104	<0.104	0.3
Lead (Pb)	<0.00021	<0.00021	0.05
Manganese (Mn)	0.014	<0.00028	0.05
Mercury (Hg)	<0.0001	<0.0001	0.002
Nickel (Ni)	0.00262	0.0025	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)		2.99	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	7.8	8	6.5-8.5
Specific Conductance (Umhos)	558	630	
Turbidity (NTU)	6.1	0.21	0.3
Threshold Odor Number	12E	1C	3