

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

Mineral Analysis	Raw (mg/L)	Treated (mg/L)	Standards (mg/L)
Residue on Evaporation	424.0	452.0	
Silica (SiO ₂)	10.5	7.22	
Iron (Fe)	0.334	<0.104	0.3
Calcium (Ca)	63.1	68.0	
Magnesium (Mg)	10.1	7.7	
Sodium (Na)	80.4	85.1	
Potassium (K)	5.75	4.49	
Bicarbonates (HCO ₃)	138.09	125.87	
Carbonates (CO ₃)	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO ₄)	98.0	116.0	300
Nitrite (NO ₂)	<0.02	<0.02	
Nitrate (NO ₃)	0.428	0.403	
Chloride (Cl)	116.0	120.0	300
Fluoride (F)	0.338	0.71	2
Phosphates (PO ₄)	0.058	<0.01	

	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)
Total Alkalinity	113	103	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	81	108	
Total Hardness	194	211	
Langelier Index		(+0.9)	

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.0029	<0.00194	0.05
Barium (Ba)	0.0676	0.0497	1
Cadmium (Cd)	<0.00013	<0.00013	0.01
Chromium (Cr)	<0.00258	<0.00258	0.05
Copper (Cu)	0.00364	0.0218	1
Iron (Fe)	0.334	<0.104	0.3
Lead (Pb)	0.000291	<0.00021	0.05
Manganese (Mn)	0.0331	0.000701	0.05
Mercury (Hg)	<0.0001	<0.0001	0.002
Nickel (Ni)	0.00357	0.0032	0.1
Selenium (Se)	0.00169	0.00109	
Silver (Ag)	<0.00025	<0.00025	0.05
Zinc (Zn)	<0.00643	<0.00643	5

Other Analyses

Chlorine Residual (mg/L)		2.9	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	7.9	8	6.5-8.5
Specific Conductance (Umhos)	719	767	
Turbidity (NTU)	9	0.13	0.3
Threshold Odor Number	17E	1C	3