

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

Mineral Analysis

	Raw (mg/L)	Treated (mg/L)	Standards (mg/L)
Residue on Evaporation	376	348	
Silica (SiO ₂)	8.16	6.92	
Iron (Fe)	1.52	<0.104	0.3
Calcium (Ca)	58.6	61.2	
Magnesium (Mg)	4.39	4.11	
Sodium (Na)	33.5	35.3	
Potassium (K)	4.34	3.94	
Bicarbonates (HCO ₃)	150.31	134.42	
Carbonates (CO ₃)	0	0	
Hydroxides (OH)	0	0	
Sulfate (SO ₄)	54.2	77.4	300
Nitrite (NO ₂)	<0.01	<0.01	
Nitrate (NO ₃)	0.655	0.462	
Chloride (Cl)	48	54.6	300
Fluoride (F)	0.31	0.71	2
Phosphates (PO ₄)	0.089	0.118	

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

Total Alkalinity	123	110	
Phenolphthalein Alkalinity	0	0	
Noncarbonate Hardness	37	61	
Total Hardness	160	171	
Langelier Index		0	

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	<0.00194	<0.00194	0.05
Barium (Ba)	0.0615	0.0454	1
Cadmium (Cd)	<0.00013	<0.00013	0.01
Chromium (Cr)	<0.00258	<0.00258	0.05
Copper (Cu)	0.0103	0.0317	1
Iron (Fe)	1.52	<0.104	0.3
Lead (Pb)	0.00124	0.000325	0.05
Manganese (Mn)	0.0612	0.0011	0.05
Mercury (Hg)	<0.0001	<0.0001	0.002
Nickel (Ni)	0.0053	0.0043	0.1
Selenium (Se)	<0.00102	<0.00102	
Silver (Ag)	<0.00025	<0.00025	0.05
Zinc (Zn)	0.0228	<0.00643	5

Other Analyses

Chlorine Residual (mg/L)		2.98	
Total Coliform (Present/Absent)	P	A	
pH (Standard Units)	8	7.9	6.5-8.5
Specific Conductance (Umhos)	494	549	
Turbidity (NTU)	17	0.2	0.3
Threshold Odor Number	12E	1C	3