

**North Texas Municipal Water District  
Water Analysis  
Jan-2009**

<b>Mineral Analysis</b>	<b>Raw</b>	<b>Treated</b>	<b>Standards</b>			
			<b>EPA Primary (mg/L)</b>	<b>EPA Secondary (mg/L)</b>	<b>TCEQ Primary (mg/L)</b>	<b>TCEQ Secondary (mg/L)</b>
Residue on Evaporation	294	344		500		1000
Silica (SiO <sub>2</sub> )	6.60	5.97				
Iron (Fe)	0.237	<0.200		0.3		0.3
Calcium (Ca)	46.5	52.1				
Magnesium (Mg)	6.50	6.51				
Sodium (Na)	34.2	41.9				
Potassium (K)	4.92	4.88				
Bicarbonates (HCO <sub>3</sub> )	127	112				
Carbonates (CO <sub>3</sub> )	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO <sub>4</sub> )	33.2	77.7		250		
Nitrite (NO <sub>2</sub> )	<0.0200	<0.0200	1		1	
Nitrate (NO <sub>3</sub> )	0.258	0.247	10		10	
Chloride (Cl)	35.7	35.1		250		300
Fluoride (F)	0.274	0.595	4.0	2.0		2.0
Phosphates (PO <sub>4</sub> )	<0.0500	<0.0500				

	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>
Total Alkalinity	104	91.9				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	51.8	84.3				
Total Hardness	156	176				
Langelier Index	-	[- 0.331 ]				

**Trace Element Analysis**

	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>
Arsenic (As)	<0.00500	<0.00500	0.01		0.01	
Barium (Ba)	0.0548	0.0430	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00969	0.0516	1.3		1.3	1.0
Iron (Fe)	0.237	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0358	0.00195		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00340	0.00372				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.0100	<0.0100		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	2.82	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	7.96	7.69		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	500	593				
Turbidity (NTU)	6.39	0.136*	0.3		0.3	
Threshold Odor Number	17F	12E				3

**Note 1: National Primary Drinking Water Regulations or Primary Standards are legally enforceable standards. National Secondary Drinking Water Regulations or Secondary Standards are non-enforceable guidelines regulating contaminants that may cause cosmetic or aesthetic effects In Drinking Water.**

**Note 2: TCEQ Primary Standards are the maximum contaminant level allowed for each constituent. TCEQ Primary Standards are legally enforceable standards.**

**Note 3: \* Identifies Monthly Average Process analyses.**