

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

<b>Mineral Analysis</b>	<b>Raw</b>	<b>Treated</b>	<b>Standards</b>			
			<b>EPA Primary</b>	<b>EPA Secondary</b>	<b>TCEQ Primary</b>	<b>TCEQ Secondary</b>
	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>
Residue on Evaporation	278	266		500		1000
Silica (SiO2)	8.51	7.08				
Iron (Fe)	<0.200	<0.200		0.3		0.3
Calcium (Ca)	46.1	49.3				
Magnesium (Mg)	3.68	3.55				
Sodium (Na)	20.3	24.9				
Potassium (K)	3.82	3.75				
Bicarbonates (HCO3)	118	92.5				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	39.6	79.7		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.362	0.322	10		10	
Chloride (Cl)	29.2	37.2		250		300
Fluoride (F)	0.262	0.494	4.0	2.0		2.0
Phosphates (PO4)	0.0480	<0.0200				

	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>
Total Alkalinity	118	92.5				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	23.5	56.5				
Total Hardness	141	149				
Langelier Index	0	[- 0.340 ]				

**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)	0.0472	0.0357	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00210	0.0837	1.3		1.3	1.0
Iron (Fe)	<0.200	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0224	<0.00100		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00367	0.00398				
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)	-	2.87*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.08*	7.49*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	388	462				
Turbidity (NTU)	13.9	0.203*	0.3		0.3	
Threshold Odor Number	4F	1E				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.**