

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

Mineral Analysis	Raw	Treated	Standards			
			EPA Primary	EPA Secondary	TCEQ Primary	TCEQ Secondary
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Residue on Evaporation	226	292		500		1000
Silica (SiO ₂)	8.93	7.20				
Iron (Fe)	0.357	<0.200		0.3		0.3
Calcium (Ca)	40.4	48.7				
Magnesium (Mg)	4.83	4.83				
Sodium (Na)	37.1	46.8				
Potassium (K)	4.79	4.53				
Bicarbonates (HCO ₃)	90.0	73.0				
Carbonates (CO ₃)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO ₄)	44.3	96.8		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.372	0.245	10		10	
Chloride (Cl)	39.5	45.2		250		300
Fluoride (F)	0.317	0.307	4.0	2.0		2.0
Phosphates (PO ₄)	0.0640	0.0120				

	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)	(mg/L as CaCO₃)
Total Alkalinity	90.0	73.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	34.0	71.0				
Total Hardness	124	144				
Langelier Index	0	[- 0.340]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	<0.00500	<0.00500	0.01		0.01	
Barium (Ba)	0.0536	0.0449	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00581	0.0684	1.3		1.3	1.0
Iron (Fe)	0.357	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0458	0.00145		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00365	0.00348				
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)	-	2.96*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	7.59*	7.50*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	419	535				
Turbidity (NTU)	7.79	0.155*	0.3		0.3	
Threshold Odor Number	8E	2E				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.