

North Texas Municipal Water District
 Bonham Water Analysis
 Dec-2009

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	144	198		500		1000
Silica (SiO ₂)	4.53	4.22				
Iron (Fe)	0.304	<0.200		0.3		0.3
Calcium (Ca)	10.9	42.6				
Magnesium (Mg)	1.68	1.90				
Sodium (Na)	2.58	7.26				
Potassium (K)	2.95	2.87				
Bicarbonates (HCO ₃)	42.5	72.5				
Carbonates (CO ₃)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO ₄)	<10.0	52.9		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0700	0.107	10		10	
Chloride (Cl)	3.79	12.7		250		300
Fluoride (F)	<0.200	0.626	4.0	2.0		2.0
Phosphates (PO ₄)	0.0650	<0.0200				

	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)
Total Alkalinity	42.5	72.5				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	11.5	51.5				
Total Hardness	54.0	124				
Langelier Index	-	[- 0.129]				

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)	0.0464	0.0312	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00819	0.0311	1.3		1.3	1.0
Iron (Fe)	0.304	<0.200		0.3		
Lead (Pb)	0.00572	<0.00100	0.15		0.15	
Manganese (Mn)	0.0793	0.0238		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00121	0.00333				
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)	-	1.83*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	7.96*	8.05*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	102	304				
Turbidity (NTU)	11.2*	0.148*	0.3		0.3	
Threshold Odor Number	4F	1F				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.