

**North Texas Municipal Water District - Bonham
Water Analysis
Jan-2015**

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	100	186		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	0.142	0.291		0.3		0.3
Calcium (Ca)	19.6	40.6				
Magnesium (Mg)	3.10	2.97				
Sodium (Na)	5.74	11.4				
Potassium (K)	4.52	4.43				
Bicarbonates (HCO ₃)	0	0				
Carbonates (CO ₃)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO ₄)	4.14	64.4		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0	0	10		10	
Chloride (Cl)	4.44	11.9		250		300
Fluoride (F)	<0.250	0.254	4.0	2.0		2.0
Phosphates (PO ₄)	0.0743	0.0126				

	(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	70.2	65.5				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	74.0	86.1				
Total Hardness	144	152				
Langelier Index	-					

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)	0.0772	0.0422	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00175	0.00273	1.3		1.3	1.0
Iron (Fe)	0.142	0.291		0.3		
Lead (Pb)	0.000478	<0.000250	0.15		0.15	
Manganese (Mn)	0.000983	0.00690		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00119	0.00312				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	<0.00250	0.00285		5		5

Other Analysis

Chlorine Residual (mg/L)	-		4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	*	*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	152	299				
Turbidity (NTU)	8.83	0.0400*	0.3		0.3	
Threshold Odor Number	140F	2CL				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.

**North Texas Municipal Water District - Bonham
Water Analysis
Feb-2015**

Mineral Analysis	Raw	Treated	Standards			
			EPA Primary (mg/L)	EPA Secondary (mg/L)	TCEQ Primary (mg/L)	TCEQ Secondary (mg/L)
Residue on Evaporation	100	216		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	0.140	0.310		0.3		0.3
Calcium (Ca)	17.3	87.3				
Magnesium (Mg)	2.49	2.94				
Sodium (Na)	5.64	13.2				
Potassium (K)	4.18	4.26				
Bicarbonates (HCO ₃)	0	0				
Carbonates (CO ₃)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO ₄)	11.4	80.4		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0	0	10		10	
Chloride (Cl)	8.99	15.1		250		300
Fluoride (F)	<0.250	0	4.0	2.0		2.0
Phosphates (PO ₄)	0.100	<0.0200				

	(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	68.9	85.9				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	2.10	61.7				
Total Hardness	71.0	148				
Langelier Index	-					

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	<0.00500	0.00875	0.01		0.01	
Barium (Ba)	0.0731	0.0690	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00289	0.00436	1.3		1.3	1.0
Iron (Fe)	0.140	0.310		0.3		
Lead (Pb)	0.000614	<0.000250	0.15		0.15	
Manganese (Mn)	0.00157	0.00210		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00117	0.00389				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00525	0.00320		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.29*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	*	*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	144	355				
Turbidity (NTU)	12.9	0.0600*	0.3		0.3	
Threshold Odor Number	100F	1.4CL				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.

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Note 3: * Identifies Monthly Average Process analyses.

**North Texas Municipal Water District - Bonham
Water Analysis
Mar-2015**

<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	88.0	194		500		1000
Silica (SiO2)	3.17	3.03				
Iron (Fe)	1.12	0.292		0.3		0.3
Calcium (Ca)	16.7	42.4				
Magnesium (Mg)	2.41	2.79				
Sodium (Na)	5.59	12.9				
Potassium (K)	3.95	4.01				
Sulfate (SO4)	4.71	65.9		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	4.45	13.0		250		300
Fluoride (F)	<0.250	0.447	4.0	2.0		2.0
Phosphates (PO4)	0.120	<0.0200				

	(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	60.2	62.7				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	7.00	59.3				
Total Hardness	67.2	122				
Langelier Index	-					

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00153	<0.00500	0.01		0.01	
Barium (Ba)	0.0734	0.0624	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00368	0.00350	1.3		1.3	1.0
Iron (Fe)	1.12	0.292		0.3		
Lead (Pb)	0.00121	<0.000250	0.15		0.15	
Manganese (Mn)	0.0704	0.000944		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00175	0.00292				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00659	0.00251		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.32*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	*	*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	146	335				
Turbidity (NTU)	23.8	0.0700*	0.3		0.3	
Threshold Odor Number	17F	1.4CL				3

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Note 3: * Identifies Monthly Average Process analyses.

**North Texas Municipal Water District - Bonham
Water Analysis
Apr-2015**

<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	146	238		500		1000
Silica (SiO2)	<2.00	<2.00				
Iron (Fe)	0.756	0.138		0.3		0.3
Calcium (Ca)	19.1	54.1				
Magnesium (Mg)	2.80	3.42				
Sodium (Na)	6.11	14.8				
Potassium (K)	4.64	4.86				
Sulfate (SO4)	3.74	70.3		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	3.94	12.8		250		300
Fluoride (F)	<0.250	0.489	4.0	2.0		2.0
Phosphates (PO4)	0.101	<0.0200				

	(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	67.5	80.2				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	21.1	67.6				
Total Hardness	88.6	148				
Langelier Index	-	[- 0.795]				

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)	0.0715	0.0933	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00412	0.00345	1.3		1.3	1.0
Iron (Fe)	0.756	0.138		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.172	0.00416		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00166	0.00410				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.60*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	6.90*	7.60*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	150	365				
Turbidity (NTU)	19.1	0.110*	0.3		0.3	
Threshold Odor Number	4F	2CL				3

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Note 3: * Identifies Monthly Average Process analyses.

**North Texas Municipal Water District - Bonham
Water Analysis
May-2015**

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	98.0	184		500		1000
Silica (SiO2)	7.20	4.44				
Iron (Fe)	0.594	<0.200		0.3		0.3
Calcium (Ca)	10.5	46.2				
Magnesium (Mg)	1.58	2.39				
Sodium (Na)	2.02	11.4				
Potassium (K)	2.44	2.84				
Sulfate (SO4)	1.83	69.5		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	1.58	15.3		250		300
Fluoride (F)	<0.250	0.439	4.0	2.0		2.0
Phosphates (PO4)	0.164	0.0100				

	(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	38.9	58.3				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	7.10	64.1				
Total Hardness	46.0	122				
Langelier Index	-	[- 0.879]				

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)	0.0552	0.0732	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00654	0.00357	1.3		1.3	1.0
Iron (Fe)	0.594	<0.200		0.3		
Lead (Pb)	0.00158	<0.00100	0.15		0.15	
Manganese (Mn)	0.187	0.00927		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00234	0.00345				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00817	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.53*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	6.90*	7.70*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	95.8	345				
Turbidity (NTU)	24.3	0.100*	0.3		0.3	
Threshold Odor Number	8F	8CL				3

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Note 3: * Identifies Monthly Average Process analyses.

**North Texas Municipal Water District - Bonham
Water Analysis
Jun-2015**

Mineral Analysis	Raw (mg/L)	Treated (mg/L)	Standards			
			EPA Primary (mg/L)	EPA Secondary (mg/L)	TCEQ Primary (mg/L)	TCEQ Secondary (mg/L)
Residue on Evaporation	152	220		500		1000
Silica (SiO2)	7.56	6.28				
Iron (Fe)	4.28	0.0979		0.3		0.3
Calcium (Ca)	16.1	54.7				
Magnesium (Mg)	2.66	2.74				
Sodium (Na)	3.40	11.9				
Potassium (K)	4.01	3.46				
Sulfate (SO4)	1.68	71.3		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	2.78	15.8		250		300
Fluoride (F)	<0.250	0.392	4.0	2.0		2.0
Phosphates (PO4)	0.315	0.0180				

	(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	63.4	65.6				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	92.6	58.2				
Total Hardness	156	124				
Langelier Index	-	[- 0.287]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00990	0.00992	0.01		0.01	
Barium (Ba)	0.0637	0.0795	2		2	
Cadmium (Cd)	<0.000250	<0.00100	0.005		0.005	
Chromium (Cr)	0.00333	<0.00500	0.1		0.1	
Copper (Cu)	0.00389	0.00577	1.3		1.3	1.0
Iron (Fe)	4.28	0.0979		0.3		
Lead (Pb)	0.00143	<0.000250	0.15		0.15	
Manganese (Mn)	0.417	0.00514		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.0106	0.00373				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0130	0.00319		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.00*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	6.90*	7.60*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	111	328				
Turbidity (NTU)	34.8	0*	0.3		0.3	
Threshold Odor Number	8F	1.4CL				3

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Note 3: * Identifies Monthly Average Process analyses.

North Texas Municipal Water District - Bonham
Water Analysis
Jul-2015

<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	92.0	210		500		1000
Silica (SiO2)	4.05	3.71				
Iron (Fe)	1.44	0.181		0.3		0.3
Calcium (Ca)	14.3	52.6				
Magnesium (Mg)	1.92	2.31				
Sodium (Na)	2.78	14.7				
Potassium (K)	4.10	3.89				
Sulfate (SO4)	1.47	58.0		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	2.20	16.4		250		300
Fluoride (F)	<0.250	0.395	4.0	2.0		2.0
Phosphates (PO4)	0.150	0.0130				

	(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	45.1	64.4				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	86.3	71.8				
Total Hardness	131	136				
Langelier Index	-	[- 0.455]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00512	<0.00500	0.01		0.01	
Barium (Ba)	0.0952	0.0727	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0319	0.00346	1.3		1.3	1.0
Iron (Fe)	1.44	0.181		0.3		
Lead (Pb)	0.00243	<0.000250	0.15		0.15	
Manganese (Mn)	0.395	0.00176		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00162	0.00370				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0105	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	-	0*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	6.90*	8.10*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	106	340				
Turbidity (NTU)	16.2	0*	0.3		0.3	
Threshold Odor Number	8F	17CL				3

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**North Texas Municipal Water District - Bonham
Water Analysis
Aug-2015**

<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	94.0	244		500		1000
Silica (SiO2)	4.84	4.36				
Iron (Fe)	0.0994	0.204		0.3		0.3
Calcium (Ca)	12.8	48.7				
Magnesium (Mg)	2.01	2.55				
Sodium (Na)	10.2	35.6				
Potassium (K)	3.49	3.70				
Sulfate (SO4)	1.28	73.9		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	2.33	26.7		250		300
Fluoride (F)	<0.250	0.544	4.0	2.0		2.0
Phosphates (PO4)	0.164	0.0260				

	(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	48.1	68.3				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	96.3	62.9				
Total Hardness	144	131				
Langelier Index	-	[- 1.01]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00519	<0.00500	0.01		0.01	
Barium (Ba)	0.180	0.0764	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00282	0.00548	1.3		1.3	1.0
Iron (Fe)	0.0994	0.204		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0367	0.00937		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00127	0.00511				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00559	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.40*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.10*	7.50*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	107	373				
Turbidity (NTU)	19.9	0.150*	0.3		0.3	
Threshold Odor Number	24F	ND				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.

North Texas Municipal Water District - Bonham

Water Analysis

Sep-2015

Regenerated: 11/24/2015

<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	86.0	212		500		1000
Silica (SiO2)	4.52	4.90				
Iron (Fe)	1.84	<0.200		0.3		0.3
Calcium (Ca)	16.1	51.1				
Magnesium (Mg)	2.48	2.82				
Sodium (Na)	4.05	16.0				
Potassium (K)	4.60	4.37				
Sulfate (SO4)	1.02	70.7		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	2.58	19.4		250		300
Fluoride (F)	<0.250	0.568	4.0	2.0		2.0
Phosphates (PO4)	0.0690	<0.0200				

	(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	58.4	62.2				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	6.40	75.6				
Total Hardness	64.8	138				
Langelier Index	-	[- 0.458]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00705	<0.00500	0.01		0.01	
Barium (Ba)	0.0599	0.0742	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00591	0.00530	1.3		1.3	1.0
Iron (Fe)	1.84	<0.200		0.3		
Lead (Pb)	0.00134	<0.00100	0.15		0.15	
Manganese (Mn)	0.641	0.0174		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00149	0.00541				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.31*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	6.70*	7.40*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	119	350				
Turbidity (NTU)	19.7	0.150*	0.3		0.3	
Threshold Odor Number	17E	1.4CL				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.

North Texas Municipal Water District - Bonham

Water Analysis

Oct-2015

Regenerated: 11/24/2015

<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	96.0	222		500		1000
Silica (SiO2)	5.86	5.24				
Iron (Fe)	0.372	<0.200		0.3		0.3
Calcium (Ca)	16.5	39.0				
Magnesium (Mg)	2.50	2.93				
Sodium (Na)	3.65	13.6				
Potassium (K)	4.37	4.53				
Sulfate (SO4)	1.25	74.9		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	2.78	16.2		250		300
Fluoride (F)	<0.250	0.541	4.0	2.0		2.0
Phosphates (PO4)	0.0930	0.0150				

	(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	54.5	61.4				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	57.3	77.0				
Total Hardness	112	138				
Langelier Index	-	[- 8.64]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00586	<0.00500	0.01		0.01	
Barium (Ba)	0.0729	0.0653	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00341	0.00300	1.3		1.3	1.0
Iron (Fe)	0.372	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.107	0.00229		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00148	0.00408				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.59*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	*	*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	123	343				
Turbidity (NTU)	18.0	0.0900*	0.3		0.3	
Threshold Odor Number	12F	1.4CL				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.

North Texas Municipal Water District - Bonham

Water Analysis

Jan-2015

Regenerated: 12/11/2015

<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	100	186		500		1000
Silica (SiO2)	<2.00	<2.00				
Iron (Fe)	0.382	0.291		0.3		0.3
Calcium (Ca)	19.6	42.8				
Magnesium (Mg)	3.10	2.97				
Sodium (Na)	5.74	11.4				
Potassium (K)	4.52	4.43				
Sulfate (SO4)	4.14	64.4		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0500	0.105	10		10	
Chloride (Cl)	4.44	11.9		250		300
Fluoride (F)	<0.250	0.254	4.0	2.0		2.0
Phosphates (PO4)	0.0743	0.0126				

	(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	70.2	65.5				
Total Hardness	144	152				
Langelier Index	-					

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)	0.0772	0.0422	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00175	0.00273	1.3		1.3	1.0
Iron (Fe)	0.382	0.291		0.3		
Lead (Pb)	0.000478	<0.000250	0.15		0.15	
Manganese (Mn)	0.0689	0.00690		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00119	0.00312				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	<0.00250	0.00285		5		5

Other Analysis

Chlorine Residual (mg/L)	-		4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	*	*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	152	299				
Turbidity (NTU)	8.83	0.0400*	0.3		0.3	
Threshold Odor Number	140F	2CL				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.

North Texas Municipal Water District - Bonham

Water Analysis

Feb-2015

Regenerated: 12/11/2015

<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	100	216		500		1000
Silica (SiO2)	<2.00	<2.00				
Iron (Fe)	0.504	0.301		0.3		0.3
Calcium (Ca)	17.3	87.3				
Magnesium (Mg)	2.49	2.94				
Sodium (Na)	5.64	13.2				
Potassium (K)	4.18	4.26				
Sulfate (SO4)	11.4	80.4		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0500	0.220	10		10	
Chloride (Cl)	8.99	15.1		250		300
Fluoride (F)	<0.250	0	4.0	2.0		2.0
Phosphates (PO4)	0.100	<0.0200				

	(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	68.9	85.9				
Total Hardness	71.0	148				
Langelier Index	-					

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	<0.00500	0.00875	0.01		0.01	
Barium (Ba)	0.0731	0.0690	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00289	0.00436	1.3		1.3	1.0
Iron (Fe)	0.504	0.301		0.3		
Lead (Pb)	0.000614	<0.000250	0.15		0.15	
Manganese (Mn)	0.0936	0.00460		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00117	0.00389				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00525	0.00320		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.29*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	*	*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	144	355				
Turbidity (NTU)	12.9	0.0600*	0.3		0.3	
Threshold Odor Number	100F	1.4CL				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.

North Texas Municipal Water District - Bonham

Water Analysis

Mar-2015

Regenerated: 12/11/2015

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	88.0	194		500		1000
Silica (SiO2)	3.17	3.03				
Iron (Fe)	1.12	0.292		0.3		0.3
Calcium (Ca)	16.7	42.4				
Magnesium (Mg)	2.41	2.79				
Sodium (Na)	5.59	12.9				
Potassium (K)	3.95	4.01				
Sulfate (SO4)	4.71	65.9		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.0540	0.247	10		10	
Chloride (Cl)	4.45	13.0		250		300
Fluoride (F)	<0.250	0.447	4.0	2.0		2.0
Phosphates (PO4)	0.120	<0.0200				

	(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	60.2	62.7				
Total Hardness	67.2	122				
Langelier Index	-					

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00153	<0.00500	0.01		0.01	
Barium (Ba)	0.0734	0.0624	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00368	0.00350	1.3		1.3	1.0
Iron (Fe)	1.12	0.292		0.3		
Lead (Pb)	0.00121	<0.000250	0.15		0.15	
Manganese (Mn)	0.0704	0.00402		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00175	0.00292				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00659	0.00251		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.32*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	*	*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	146	335				
Turbidity (NTU)	23.8	0.0700*	0.3		0.3	
Threshold Odor Number	17F	1.4CL				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.

North Texas Municipal Water District - Bonham

Water Analysis

Apr-2015

Regenerated: 12/11/2015

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	146	238		500		1000
Silica (SiO2)	<2.00	<2.00				
Iron (Fe)	0.756	<0.200		0.3		0.3
Calcium (Ca)	19.1	54.1				
Magnesium (Mg)	2.80	3.42				
Sodium (Na)	6.11	14.8				
Potassium (K)	4.64	4.86				
Sulfate (SO4)	3.74	70.3		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0500	0.242	10		10	
Chloride (Cl)	3.94	12.8		250		300
Fluoride (F)	<0.250	0.489	4.0	2.0		2.0
Phosphates (PO4)	0.101	<0.0200				

	(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	67.5	80.2				
Total Hardness	88.6	148				
Langelier Index	-	[- 0.795]				

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)	0.0715	0.0933	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00412	0.00345	1.3		1.3	1.0
Iron (Fe)	0.756	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.172	0.00416		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00166	0.00410				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.60*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	6.90*	7.60*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	150	365				
Turbidity (NTU)	19.1	0.110*	0.3		0.3	
Threshold Odor Number	4F	2CL				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.

North Texas Municipal Water District - Bonham

Water Analysis

May-2015

Regenerated: 12/11/2015

<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	98.0	184		500		1000
Silica (SiO2)	7.20	4.44				
Iron (Fe)	1.65	<0.200		0.3		0.3
Calcium (Ca)	10.5	46.2				
Magnesium (Mg)	1.58	2.39				
Sodium (Na)	2.02	11.4				
Potassium (K)	2.44	2.84				
Sulfate (SO4)	1.83	69.5		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.0562	0.280	10		10	
Chloride (Cl)	1.58	15.3		250		300
Fluoride (F)	<0.250	0.439	4.0	2.0		2.0
Phosphates (PO4)	0.164	0.0100				

	(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	38.9	58.3				
Total Hardness	46.0	122				
Langelier Index	-	[- 0.879]				

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)	0.0552	0.0732	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00654	0.00357	1.3		1.3	1.0
Iron (Fe)	1.65	<0.200		0.3		
Lead (Pb)	0.00158	<0.00100	0.15		0.15	
Manganese (Mn)	0.187	0.00927		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00234	0.00345				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00817	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.53*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	6.90*	7.70*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	95.8	345				
Turbidity (NTU)	24.3	0.100*	0.3		0.3	
Threshold Odor Number	8F	8CL				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.

North Texas Municipal Water District - Bonham

Water Analysis

Jun-2015

Regenerated: 12/11/2015

<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	152	220		500		1000
Silica (SiO2)	7.56	6.28				
Iron (Fe)	4.28	0.168		0.3		0.3
Calcium (Ca)	16.1	46.8				
Magnesium (Mg)	2.66	2.74				
Sodium (Na)	3.40	11.9				
Potassium (K)	4.01	3.46				
Sulfate (SO4)	1.68	71.3		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0500	0.198	10		10	
Chloride (Cl)	2.78	15.8		250		300
Fluoride (F)	<0.250	0.392	4.0	2.0		2.0
Phosphates (PO4)	0.315	0.0180				

	(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	63.4	65.6				
Total Hardness	156	124				
Langelier Index	-	[- 0.287]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00990	0.00992	0.01		0.01	
Barium (Ba)	0.0637	0.0795	2		2	
Cadmium (Cd)	<0.000250	<0.00100	0.005		0.005	
Chromium (Cr)	0.00333	<0.00500	0.1		0.1	
Copper (Cu)	0.00389	0.00577	1.3		1.3	1.0
Iron (Fe)	4.28	0.168		0.3		
Lead (Pb)	0.00143	<0.000250	0.15		0.15	
Manganese (Mn)	0.622	0.00514		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.0106	0.00373				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0130	0.00319		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.00*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	6.90*	7.60*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	111	328				
Turbidity (NTU)	34.8	0*	0.3		0.3	
Threshold Odor Number	8F	1.4CL				3

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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.

North Texas Municipal Water District - Bonham

Water Analysis

Jul-2015

Regenerated: 12/11/2015

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	92.0	210		500		1000
Silica (SiO2)	4.05	3.71				
Iron (Fe)	1.44	0.188		0.3		0.3
Calcium (Ca)	14.3	45.6				
Magnesium (Mg)	1.92	2.31				
Sodium (Na)	2.78	14.7				
Potassium (K)	4.10	3.89				
Sulfate (SO4)	1.47	58.0		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0500	0.196	10		10	
Chloride (Cl)	2.20	16.4		250		300
Fluoride (F)	<0.250	0.395	4.0	2.0		2.0
Phosphates (PO4)	0.150	0.0130				

	(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	45.1	64.4				
Total Hardness	131	136				
Langelier Index	-	[- 0.455]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00512	<0.00500	0.01		0.01	
Barium (Ba)	0.0952	0.0727	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0319	0.00346	1.3		1.3	1.0
Iron (Fe)	1.44	0.188		0.3		
Lead (Pb)	0.00243	<0.000250	0.15		0.15	
Manganese (Mn)	0.395	0.0105		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00162	0.00370				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0105	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	-	0*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	6.90*	8.10*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	106	340				
Turbidity (NTU)	16.2	0*	0.3		0.3	
Threshold Odor Number	8F	17CL				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.

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Note 3: * Identifies Monthly Average Process analyses.

North Texas Municipal Water District - Bonham

Water Analysis

Aug-2015

Regenerated: 12/11/2015

<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	94.0	244		500		1000
Silica (SiO2)	4.84	4.36				
Iron (Fe)	0.826	<0.200		0.3		0.3
Calcium (Ca)	12.8	48.7				
Magnesium (Mg)	2.01	2.55				
Sodium (Na)	10.2	35.6				
Potassium (K)	3.49	3.70				
Sulfate (SO4)	1.28	73.9		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0500	0.335	10		10	
Chloride (Cl)	2.33	26.7		250		300
Fluoride (F)	<0.250	0.544	4.0	2.0		2.0
Phosphates (PO4)	0.164	0.0260				

	(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	48.1	68.3				
Total Hardness	144	131				
Langelier Index	-	[- 1.01]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00519	<0.00500	0.01		0.01	
Barium (Ba)	0.180	0.0764	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00282	0.00548	1.3		1.3	1.0
Iron (Fe)	0.826	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.441	0.00937		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00127	0.00511				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00559	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.40*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.10*	7.50*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	107	373				
Turbidity (NTU)	19.9	0.150*	0.3		0.3	
Threshold Odor Number	24F	ND				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.

North Texas Municipal Water District - Bonham

Water Analysis

Sep-2015

Regenerated: 12/11/2015

<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	86.0	212		500		1000
Silica (SiO2)	4.52	4.90				
Iron (Fe)	1.84	<0.200		0.3		0.3
Calcium (Ca)	16.1	51.1				
Magnesium (Mg)	2.48	2.82				
Sodium (Na)	4.05	16.0				
Potassium (K)	4.60	4.37				
Sulfate (SO4)	1.02	70.7		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0500	0.471	10		10	
Chloride (Cl)	2.58	19.4		250		300
Fluoride (F)	<0.250	0.568	4.0	2.0		2.0
Phosphates (PO4)	0.0690	<0.0200				

	(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	58.4	62.2				
Total Hardness	64.8	138				
Langelier Index	-	[- 0.458]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00705	<0.00500	0.01		0.01	
Barium (Ba)	0.0599	0.0742	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00591	0.00530	1.3		1.3	1.0
Iron (Fe)	1.84	<0.200		0.3		
Lead (Pb)	0.00134	<0.00100	0.15		0.15	
Manganese (Mn)	0.641	0.0174		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00149	0.00541				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.31*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	6.70*	7.40*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	119	350				
Turbidity (NTU)	19.7	0.150*	0.3		0.3	
Threshold Odor Number	17E	1.4CL				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.

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Note 3: * Identifies Monthly Average Process analyses.

North Texas Municipal Water District - Bonham

Water Analysis

Oct-2015

Regenerated: 12/11/2015

<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	96.0	222		500		1000
Silica (SiO2)	5.86	5.24				
Iron (Fe)	0.372	<0.200		0.3		0.3
Calcium (Ca)	16.5	39.0				
Magnesium (Mg)	2.50	2.93				
Sodium (Na)	3.65	13.6				
Potassium (K)	4.37	4.53				
Sulfate (SO4)	1.25	74.9		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0500	0.255	10		10	
Chloride (Cl)	2.78	16.2		250		300
Fluoride (F)	<0.250	0.541	4.0	2.0		2.0
Phosphates (PO4)	0.0930	0.0150				

	(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	54.5	61.4				
Total Hardness	112	138				
Langelier Index	-	[- 8.64]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00586	<0.00500	0.01		0.01	
Barium (Ba)	0.0729	0.0653	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00341	0.00300	1.3		1.3	1.0
Iron (Fe)	0.372	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.107	0.00229		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00148	0.00408				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.59*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	*	*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	123	343				
Turbidity (NTU)	18.0	0.0900*	0.3		0.3	
Threshold Odor Number	12F	1.4CL				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.

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Note 3: * Identifies Monthly Average Process analyses.

North Texas Municipal Water District - Bonham

Water Analysis

Nov-2015

Regenerated: 12/11/2015

<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	80.0	200		500		1000
Silica (SiO2)	4.37	3.83				
Iron (Fe)	0.444	<0.200		0.3		0.3
Calcium (Ca)	16.4	51.2				
Magnesium (Mg)	2.18	2.71				
Sodium (Na)	3.24	13.2				
Potassium (K)	3.98	4.25				
Sulfate (SO4)	1.78	73.4		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0500	0.291	10		10	
Chloride (Cl)	2.60	15.5		250		300
Fluoride (F)	<0.250	0.343	4.0	2.0		2.0
Phosphates (PO4)	0.0830	0.0100				

	(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	51.5	57.0				
Total Hardness	86.6	128				
Langelier Index	-	[- 8.56]				

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)	0.0637	0.0569	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00350	0.00240	1.3		1.3	1.0
Iron (Fe)	0.444	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.114	0.00250		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00169	0.00459				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	0*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	*	*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	127	350				
Turbidity (NTU)	11.5	0*	0.3		0.3	
Threshold Odor Number	35F	1CL				3

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Note 3: * Identifies Monthly Average Process analyses.

North Texas Municipal Water District - Bonham

Water Analysis

Dec-2015

Generated: 01/00/1900

<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	94.0	182		500		1000
Silica (SiO2)	4.26	3.27				
Iron (Fe)	0.858	<0.200		0.3		0.3
Calcium (Ca)	10.8	43.4				
Magnesium (Mg)	1.52	2.03				
Sodium (Na)	2.50	13.3				
Potassium (K)	3.12	3.06				
Sulfate (SO4)	1.58	62.7		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.0578	0.248	10		10	
Chloride (Cl)	1.23	12.9		250		300
Fluoride (F)	<0.250	0.445	4.0	2.0		2.0
Phosphates (PO4)	0.0800	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	29.4	49.6				
Total Hardness	24.4	111				
Langelier Index	-	[- 8.67]				

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)	0.0348	0.0423	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00457	0.00210	1.3		1.3	1.0
Iron (Fe)	0.858	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0333	0.00193		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00184	0.00459				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00541	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.69*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	*	*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	62.0	281				
Turbidity (NTU)	24.5	0.0700*	0.3		0.3	
Threshold Odor Number	17F	ND				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.