

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Dec-2018

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	132	220		500		1000
Silica (SiO ₂)	4.62	3.19				
Iron (Fe)	1.28	0.364		0.3		0.3
Calcium (Ca)	12.3	48.9				
Magnesium (Mg)	1.71	2.02				
Sodium (Na)	3.07	11.1				
Potassium (K)	2.98	2.88				
Sulfate (SO ₄)	2.88	61.5		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.0560	0.175	10		10	
Chloride (Cl)	2.47	10.2		250		300
Fluoride (F)	0.0640	0.545	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.122	0.0160				
	(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	41.1 *	64.5 *				
Total Hardness	53.0	120				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00102	<0.00050	0.01		0.01	
Barium (Ba)	0.0439	0.0385	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00380	0.00172	1.3	1	1.3	1.0
Iron (Fe)	1.28	0.364		0.3		0.3
Lead (Pb)	0.00101	<0.000500	0.015		0.015	
Manganese (Mn)	0.0379	0.00307		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00223	0.00469				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00590	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.11	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.00 *	8.00 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	96.8	314				
Turbidity (NTU)	28.1 *	0.06 *	0.3		0.3	
Threshold Odor Number	4.0	2.0				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. ** No odor analysis performed.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Nov-2018

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	248		500		1000
Silica (SiO ₂)	4.86	3.76				
Iron (Fe)	0.494	0.257		0.3		0.3
Calcium (Ca)	11.6	44.4				
Magnesium (Mg)	1.64	2.01				
Sodium (Na)	2.74	9.52				
Potassium (K)	2.89	2.71				
Sulfate (SO ₄)	1.79	61.4		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.187	10		10	
Chloride (Cl)	1.84	9.39		250		300
Fluoride (F)	0.0690	0.504	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.0700	0.0110				
	(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	46.5 *	64.7 *				
Total Hardness	32.4	109				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00118	<0.00050	0.01		0.01	
Barium (Ba)	0.0385	0.0400	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00254	0.00215	1.3	1	1.3	1.0
Iron (Fe)	0.494	0.257		0.3		0.3
Lead (Pb)	<0.000500	<0.000500	0.015		0.015	
Manganese (Mn)	0.0478	0.00218		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00139	0.00409				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	<0.00250	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.12	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.11 *	7.90 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	82.6	291				
Turbidity (NTU)	15.3 *	0.05 *	0.3		0.3	
Threshold Odor Number	17.0	2.0				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. ** No odor analysis performed.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Oct-2018

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	86.0	202		500		1000
Silica (SiO ₂)	4.50	4.04				
Iron (Fe)	0.928	0.360		0.3		0.3
Calcium (Ca)	10.0	41.8				
Magnesium (Mg)	1.30	1.62				
Sodium (Na)	2.04	10.0				
Potassium (K)	2.62	2.55				
Sulfate (SO ₄)	1.62	58.8		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.414	10		10	
Chloride (Cl)	1.57	11.2		250		300
Fluoride (F)	<0.250	0.593	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.115	<0.0100				
	(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	41.5 *	64.2 *				
Total Hardness	29.6	111				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00334	<0.00050	0.01		0.01	
Barium (Ba)	0.0687	0.0468	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00287	0.00309	1.3	1	1.3	1.0
Iron (Fe)	0.928	0.360		0.3		0.3
Lead (Pb)	<0.000500	<0.000500	0.015		0.015	
Manganese (Mn)	0.275	0.00454		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00128	0.00492				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00618	0.00349		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.96	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.16 *	7.73 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	79.7	295				
Turbidity (NTU)	28.7 *	0.06 *	0.3		0.3	
Threshold Odor Number	4.0	2.0				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. ** No odor analysis performed.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Sep-2018

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	124	258		500		1000
Silica (SiO ₂)	5.33	5.29				
Iron (Fe)	1.08	0.455		0.3		0.3
Calcium (Ca)	15.8	62.7				
Magnesium (Mg)	2.14	2.50				
Sodium (Na)	4.25	14.6				
Potassium (K)	3.77	3.77				
Sulfate (SO ₄)	2.31	77.1		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.323	10		10	
Chloride (Cl)	3.00	17.7		250		300
Fluoride (F)	<0.250	0.701	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.182	0.0100				
	(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	55.1 *	70.6 *				
Total Hardness	51.6	133				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00596	0.00088	0.01		0.01	
Barium (Ba)	0.115	0.0679	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00359	0.00399	1.3	1	1.3	1.0
Iron (Fe)	1.08	0.455		0.3		0.3
Lead (Pb)	0.000656	<0.000500	0.015		0.015	
Manganese (Mn)	0.551	0.0103		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00136	0.00592				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00315	0.00362		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.78	4.0		4.0	
Total coliform (Present / Absent)	--	Process Error	A		A	
pH (Standard Units) @ 25°C	7.19 *	7.74 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	127	356				
Turbidity (NTU)	24.0 *	0.13 *	0.3		0.3	
Threshold Odor Number	5.0	2.0				3

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Note 3: * Identifies Monthly Average Process analyses. ** No odor analysis performed.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Aug-2018

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	96.0	212		500		1000
Silica (SiO ₂)	4.57	4.53				
Iron (Fe)	0.605	0.488		0.3		0.3
Calcium (Ca)	20.0	47.1				
Magnesium (Mg)	2.18	2.71				
Sodium (Na)	4.47	13.9				
Potassium (K)	3.81	3.97				
Sulfate (SO ₄)	2.38	70.2		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.258	10		10	
Chloride (Cl)	2.87	13.7		250		300
Fluoride (F)	<0.250	0.390	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.100	<0.0100				
	(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	62.9 *	69.1 *				
Total Hardness	44.8	125				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00493	0.00093	0.01		0.01	
Barium (Ba)	0.0510	0.0633	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.0169	0.00522	1.3	1	1.3	1.0
Iron (Fe)	0.605	0.488		0.3		0.3
Lead (Pb)	0.00218	<0.000500	0.015		0.015	
Manganese (Mn)	0.179	0.00490		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00161	0.00677				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00405	0.00439		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	7.43 *	7.77 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	124	347				
Turbidity (NTU)	19.3 *	0.09 *	0.3		0.3	
Threshold Odor Number	**	**				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. ** No odor analysis performed.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Jul-2018

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	218		500		1000
Silica (SiO ₂)	4.64	4.10				
Iron (Fe)	0.867	0.322		0.3		0.3
Calcium (Ca)	15.8	62.1				
Magnesium (Mg)	1.69	1.98				
Sodium (Na)	5.00	18.4				
Potassium (K)	3.15	2.98				
Sulfate (SO ₄)	2.87	67.8		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.250	10		10	
Chloride (Cl)	2.75	14.9		250		300
Fluoride (F)	<0.250	0.681	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.107	<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	59.1 *	73.3 *				
Total Hardness	44.4	126				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00454	0.00070	0.01		0.01	
Barium (Ba)	0.0992	0.0630	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00403	0.00851	1.3	1	1.3	1.0
Iron (Fe)	0.867	0.322		0.3		0.3
Lead (Pb)	0.000642	<0.000500	0.015		0.015	
Manganese (Mn)	0.542	0.0152		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00131	0.00549				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00365	0.00403		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.81	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.26 *	7.66 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	117	341				
Turbidity (NTU)	19.2 *	0.12 *	0.3		0.3	
Threshold Odor Number	4.0	<1.0				3

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Note 3: * Identifies Monthly Average Process analyses. ** No odor analysis performed.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Jun-2018

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	204		500		1000
Silica (SiO ₂)	3.16	3.37				
Iron (Fe)	0.619	0.541		0.3		0.3
Calcium (Ca)	16.1	57.2				
Magnesium (Mg)	1.67	2.01				
Sodium (Na)	3.70	12.8				
Potassium (K)	3.14	3.15				
Sulfate (SO ₄)	3.15	58.5		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.195	10		10	
Chloride (Cl)	2.56	10.3		250		300
Fluoride (F)	<0.250	0.603	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.0850	0.0110				
	(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	54.0 *	76.3 *				
Total Hardness	112	143				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00265	<0.00050	0.01		0.01	
Barium (Ba)	0.0638	0.0569	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00453	0.00680	1.3	1	1.3	1.0
Iron (Fe)	0.619	0.541		0.3		0.3
Lead (Pb)	0.000600	<0.000500	0.015		0.015	
Manganese (Mn)	0.310	0.0169		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00135	0.00564				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00366	<0.00250		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	7.48 *	7.72 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	109	320				
Turbidity (NTU)	16.6 *	0.10 *	0.3		0.3	
Threshold Odor Number	**	**				3

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Note 3: * Identifies Monthly Average Process analyses. ** No odor analysis performed.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
May-2018

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	182		500		1000
Silica (SiO ₂)	5.29	3.92				
Iron (Fe)	2.11	0.455		0.3		0.3
Calcium (Ca)	13.8	50.5				
Magnesium (Mg)	2.14	2.20				
Sodium (Na)	4.45	9.71				
Potassium (K)	4.01	3.65				
Sulfate (SO ₄)	3.73	63.4		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.413	10		10	
Chloride (Cl)	2.56	8.63		250		300
Fluoride (F)	<0.250	0.462	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.0630	<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	52.9 *	75.4 *				
Total Hardness	49.0	123				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00187	<0.00050	0.01		0.01	
Barium (Ba)	0.0554	0.0493	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	0.00271	<0.00250	0.1		0.1	
Copper (Cu)	0.00584	0.00324	1.3	1	1.3	1.0
Iron (Fe)	2.11	0.455		0.3		0.3
Lead (Pb)	0.00142	<0.000500	0.015		0.015	
Manganese (Mn)	0.243	0.00315		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00276	0.00454				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00689	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.89	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.08 *	7.75 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	105	308				
Turbidity (NTU)	24.7 *	0.09 *	0.3		0.3	
Threshold Odor Number	**	**				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. ** No odor analysis performed.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Apr-2018

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	114	200		500		1000
Silica (SiO ₂)	4.01	3.00				
Iron (Fe)	1.59	<0.200		0.3		0.3
Calcium (Ca)	14.8	53.5				
Magnesium (Mg)	2.10	2.09				
Sodium (Na)	5.06	11.1				
Potassium (K)	4.34	3.69				
Sulfate (SO ₄)	4.05	70.8		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.0600	0.350	10		10	
Chloride (Cl)	2.67	9.74		250		300
Fluoride (F)	<0.250	0.480	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.106	<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	44.1 *	72.5 *				
Total Hardness	38.4	127				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00130	<0.00050	0.01		0.01	
Barium (Ba)	0.0552	0.0454	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	0.00226	<0.00100	0.1		0.1	
Copper (Cu)	0.00630	0.00385	1.3	1	1.3	1.0
Iron (Fe)	1.59	<0.200		0.3		0.3
Lead (Pb)	0.00141	<0.000500	0.015		0.015	
Manganese (Mn)	0.0632	0.00530		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00212	0.00343				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00701	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.98	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.11 *	7.63 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	100	322				
Turbidity (NTU)	32.5 *	0.08 *	0.3		0.3	
Threshold Odor Number	**	**				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. ** No odor analysis performed.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Mar-2018

Mineral Analysis	Standards					
	Raw	Treated	EPA Primary	EPA Secondary	TCEQ Primary	TCEQ Secondary
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Residue on Evaporation	94.0	202		500		1000
Silica (SiO ₂)	5.01	3.62				
Iron (Fe)	1.20	0.258		0.3		0.3
Calcium (Ca)	12.9	73.8				
Magnesium (Mg)	1.58	1.83				
Sodium (Na)	3.31	16.7				
Potassium (K)	3.18	3.59				
Sulfate (SO ₄)	3.81	62.6		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.154	10		10	
Chloride (Cl)	2.48	9.81		250		300
Fluoride (F)	<0.250	0.462	4.0	2.0	4	2.0
Phosphates (PO ₄)	0.124	<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	43.7 *	77.3 *				
Total Hardness	58.2	135				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00114	<0.00050	0.01		0.01	
Barium (Ba)	0.0520	0.0446	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00620	0.00600	1.3	1	1.3	1.0
Iron (Fe)	1.20	0.258		0.3		0.3
Lead (Pb)	0.00131	<0.000500	0.015		0.015	
Manganese (Mn)	0.0600	0.00290		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00169	0.00320				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00625	0.00323		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.81	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	6.85 *	7.76 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	89.2	312				
Turbidity (NTU)	33.0 *	0.08 *	0.3		0.3	
Threshold Odor Number	4G	8Cl				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
Feb-2018

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	84.0	206		500		1000
Silica (SiO ₂)	2.65	2.23				
Iron (Fe)	0.504	<0.200		0.3		0.3
Calcium (Ca)	13.6	68.9				
Magnesium (Mg)	1.58	2.02				
Sodium (Na)	4.02	11.7				
Potassium (K)	3.83	3.81				
Sulfate (SO ₄)	4.14	70.7		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.311	0.198	10		10	
Chloride (Cl)	2.89	11.6		250		300
Fluoride (F)	<0.250	0.501	4.0	2.0		2.0
Phosphates (PO ₄)	0.0720	0.0220				
	(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	45.8 *	80.6 *				
Total Hardness	83.8	136				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00080	<0.00050	0.01		0.01	
Barium (Ba)	0.0541	0.0426	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00100	<0.00100	0.1		0.1	
Copper (Cu)	0.00413	0.00225	1.3		1.3	1.0
Iron (Fe)	0.504	<0.200		0.3		
Lead (Pb)	0.000922	<0.000500	0.15		0.15	
Manganese (Mn)	0.0314	0.00276		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00107	0.00382				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	<0.00500	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.87	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.11 *	7.88 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	102	350				
Turbidity (NTU)	24.9 *	0.07 *	0.3		0.3	
Threshold Odor Number	6F	ND				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
Jan-2018

Mineral Analysis	Standards					
	Raw	Treated	EPA Primary	EPA Secondary	TCEQ Primary	TCEQ Secondary
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Residue on Evaporation	80.0	174		500		1000
Silica (SiO ₂)	2.76	<2.00				
Iron (Fe)	0.512	0.248		0.3		0.3
Calcium (Ca)	13.6	54.7				
Magnesium (Mg)	1.65	2.38				
Sodium (Na)	4.76	9.77				
Potassium (K)	4.07	4.28				
Sulfate (SO ₄)	3.76	62.6		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.261	0.365	10		10	
Chloride (Cl)	3.15	8.25		250		300
Fluoride (F)	<0.250	0.413	4.0	2.0		2.0
Phosphates (PO ₄)	0.0260	<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	48.6 *	66.8 *				
Total Hardness	72.8	124				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00095	<0.00050	0.01		0.01	
Barium (Ba)	0.0499	0.0318	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00198	0.00255	1.3		1.3	1.0
Iron (Fe)	0.512	0.248		0.3		
Lead (Pb)	0.000597	<0.000500	0.15		0.15	
Manganese (Mn)	0.0464	0.00348		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00104	0.00324				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00266	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.98	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	6.92 *	7.74 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	101	301				
Turbidity (NTU)	15.4 *	0.05 *	0.3		0.3	
Threshold Odor Number	6E	12Cl				3

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Note 3: * Identifies Monthly Average Process analyses.