

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Dec-2017

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	112	250		500		1000
Silica (SiO ₂)	3.15	2.48				
Iron (Fe)	0.510	0.280		0.3		0.3
Calcium (Ca)	14.9	59.5				
Magnesium (Mg)	1.43	2.33				
Sodium (Na)	4.90	12.9				
Potassium (K)	4.21	4.22				
Sulfate (SO ₄)	2.75	63.9		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.360	0.403	10		10	
Chloride (Cl)	3.07	11.7		250		300
Fluoride (F)	<0.250	0.570	4.0	2.0		2.0
Phosphates (PO ₄)	0.0530	<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	52.3 *	72.3 *				
Total Hardness	60.6	138				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00111	0.00062	0.01		0.01	
Barium (Ba)	0.0490	0.0352	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.115	0.00199	1.3		1.3	1.0
Iron (Fe)	0.510	0.280		0.3		
Lead (Pb)	0.00505	<0.000500	0.15		0.15	
Manganese (Mn)	0.0764	0.00616		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00121	0.00341				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.0669	<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	6.97 *	7.80 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	109	330				
Turbidity (NTU)	17.1 *	0.07 *	0.3		0.3	
Threshold Odor Number	70F	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
Nov-2017

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	198		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	0.407	0.278		0.3		0.3
Calcium (Ca)	14.7	49.8				
Magnesium (Mg)	1.75	2.17				
Sodium (Na)	4.42	12.2				
Potassium (K)	3.80	4.18				
Sulfate (SO ₄)	2.00	63.0		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.279	10		10	
Chloride (Cl)	2.94	12.0		250		300
Fluoride (F)	<0.250	0.499	4.0	2.0		2.0
Phosphates (PO ₄)	0.0650	<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	60.1 *	76.9 *				
Total Hardness	82.2	140				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00173	0.00084	0.01		0.01	
Barium (Ba)	0.0556	0.0427	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00312	0.00275	1.3		1.3	1.0
Iron (Fe)	0.407	0.278		0.3		
Lead (Pb)	<0.000500	<0.000500	0.15		0.15	
Manganese (Mn)	0.0938	0.00330		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	<0.00100	0.00307				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	<0.00250	0.00270		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.88	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.26 *	7.81 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	117	327				
Turbidity (NTU)	15.1 *	0.08 *	0.3		0.3	
Threshold Odor Number	100F	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
Oct-2017

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	80.0	198		500		1000
Silica (SiO ₂)	2.32	<2.00				
Iron (Fe)	0.478	0.284		0.3		0.3
Calcium (Ca)	17.1	57.9				
Magnesium (Mg)	1.84	2.12				
Sodium (Na)	3.79	14.8				
Potassium (K)	4.47	4.25				
Sulfate (SO ₄)	1.48	59.8		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.266	10		10	
Chloride (Cl)	2.74	15.0		250		300
Fluoride (F)	<0.250	0.482	4.0	2.0		2.0
Phosphates (PO ₄)	0.0840	<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	62.6 *	74.5 *				
Total Hardness	51.8	124				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00324	0.00084	0.01		0.01	
Barium (Ba)	0.0615	0.0553	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00396	0.00514	1.3		1.3	1.0
Iron (Fe)	0.478	0.284		0.3		
Lead (Pb)	<0.000500	<0.000500	0.15		0.15	
Manganese (Mn)	0.120	0.00460		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	<0.00100	0.00308				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00310	0.00385		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.93	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.24 *	7.69 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	117	326				
Turbidity (NTU)	13.5 *	0.07 *	0.3		0.3	
Threshold Odor Number	35F	1.4Cl				3

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Note 3: * Identifies Monthly Average Process analyses.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Sep-2017

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	82.0	198		500		1000
Silica (SiO ₂)	4.51	4.52				
Iron (Fe)	0.779	0.227		0.3		0.3
Calcium (Ca)	16.3	49.4				
Magnesium (Mg)	2.08	2.26				
Sodium (Na)	7.08	14.1				
Potassium (K)	3.99	3.86				
Sulfate (SO ₄)	1.22	62.7		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.466	10		10	
Chloride (Cl)	2.90	13.0		250		300
Fluoride (F)	<0.250	0.493	4.0	2.0		2.0
Phosphates (PO ₄)	0.149	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	61.5 *	77.0 *				
Total Hardness	80.2	133				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00491	0.00089	0.01		0.01	
Barium (Ba)	0.118	0.0556	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00617	0.00504	1.3		1.3	1.0
Iron (Fe)	0.779	0.227		0.3		
Lead (Pb)	0.000570	<0.000500	0.15		0.15	
Manganese (Mn)	0.294	0.0109		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00118	0.00376				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00514	0.00290		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.77	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.12 *	7.59 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	110	316				
Turbidity (NTU)	15.0 *	0.09 *	0.3		0.3	
Threshold Odor Number	24E	1.4Cl				3

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Note 3: * Identifies Monthly Average Process analyses.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Aug-2017

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	114	208		500		1000
Silica (SiO ₂)	4.26	3.30				
Iron (Fe)	0.830	0.240		0.3		0.3
Calcium (Ca)	15.2	59.7				
Magnesium (Mg)	1.65	2.15				
Sodium (Na)	4.97	14.3				
Potassium (K)	4.54	4.44				
Sulfate (SO ₄)	2.33	68.5		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.0590	0.504	10		10	
Chloride (Cl)	2.68	12.5		250		300
Fluoride (F)	<0.250	0.512	4.0	2.0		2.0
Phosphates (PO ₄)	0.179	<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	60.0 *	74.7 *				
Total Hardness	57.8	119				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00482	0.00069	0.01		0.01	
Barium (Ba)	0.145	0.0512	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00845	0.00335	1.3		1.3	1.0
Iron (Fe)	0.830	0.240		0.3		
Lead (Pb)	0.000987	<0.000500	0.15		0.15	
Manganese (Mn)	0.297	0.0117		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00143	0.00358				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00481	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.99	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	6.85 *	7.69 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	110	307				
Turbidity (NTU)	20.2 *	0.12 *	0.3		0.3	
Threshold Odor Number	24F	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
Jul-2017

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	120	240		500		1000
Silica (SiO ₂)	2.30	2.48				
Iron (Fe)	0.778	<0.200		0.3		0.3
Calcium (Ca)	18.3	41.8				
Magnesium (Mg)	2.36	2.25				
Sodium (Na)	5.28	14.9				
Potassium (K)	4.08	3.48				
Sulfate (SO ₄)	1.96	58.4		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.280	10		10	
Chloride (Cl)	3.14	14.0		250		300
Fluoride (F)	<0.250	0.503	4.0	2.0		2.0
Phosphates (PO ₄)	0.119	<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	66.0 *	81.6 *				
Total Hardness	49.8	117				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00626	0.00066	0.01		0.01	
Barium (Ba)	0.0949	0.0546	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00100	<0.00100	0.1		0.1	
Copper (Cu)	0.00927	0.00703	1.3		1.3	1.0
Iron (Fe)	0.778	<0.200		0.3		
Lead (Pb)	0.000850	<0.000500	0.15		0.15	
Manganese (Mn)	0.543	0.0123		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00260	0.00313				
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)	--	2.73	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.60 *	7.45 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	131	323				
Turbidity (NTU)	19.4 *	0.15 *	0.3		0.3	
Threshold Odor Number	8E	8Cl				3

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Note 3: * Identifies Monthly Average Process analyses.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Jun-2017

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	188		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	0.802	0.240		0.3		0.3
Calcium (Ca)	22.1	79.6				
Magnesium (Mg)	2.60	3.03				
Sodium (Na)	6.53	14.6				
Potassium (K)	5.09	4.60				
Sulfate (SO ₄)	2.60	65.0		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.417	10		10	
Chloride (Cl)	3.33	12.5		250		300
Fluoride (F)	<0.250	0.526	4.0	2.0		2.0
Phosphates (PO ₄)	0.0820	<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	64.4 *	80.1 *				
Total Hardness	51.4	124				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00424	0.00066	0.01		0.01	
Barium (Ba)	0.161	0.0597	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00100	<0.00100	0.1		0.1	
Copper (Cu)	0.00395	0.00377	1.3		1.3	1.0
Iron (Fe)	0.802	0.240		0.3		
Lead (Pb)	0.000616	<0.000500	0.15		0.15	
Manganese (Mn)	0.686	0.00564		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00111	0.00377				
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)	--	2.78	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.44 *	7.67 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	131	329				
Turbidity (NTU)	21.2 *	0.12 *	0.3		0.3	
Threshold Odor Number	8E	17CL				3

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Note 3: * Identifies Monthly Average Process analyses.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
May-2017

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	112	238		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	1.01	0.207		0.3		0.3
Calcium (Ca)	16.1	65.4				
Magnesium (Mg)	1.92	2.36				
Sodium (Na)	4.85	11.4				
Potassium (K)	3.62	3.64				
Sulfate (SO ₄)	3.09	68.7		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.363	10		10	
Chloride (Cl)	3.05	12.1		250		300
Fluoride (F)	<0.250	0.513	4.0	2.0		2.0
Phosphates (PO ₄)	0.140	<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	61.5 *	78.4 *				
Total Hardness	73.8	139				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00205	0.00058	0.01		0.01	
Barium (Ba)	0.0629	0.0584	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00100	<0.00100	0.1		0.1	
Copper (Cu)	0.00699	0.00533	1.3		1.3	1.0
Iron (Fe)	1.01	0.207		0.3		
Lead (Pb)	0.00101	<0.000500	0.15		0.15	
Manganese (Mn)	0.303	0.00409		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00158	0.00395				
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)	--	2.84	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.44 *	7.56 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	122	353				
Turbidity (NTU)	21.0 *	0.20 *	0.3		0.3	
Threshold Odor Number	35G	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
Apr-2017

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	112	236		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	0.719	0.314		0.3		0.3
Calcium (Ca)	17.5	79.7				
Magnesium (Mg)	2.09	2.95				
Sodium (Na)	5.31	12.9				
Potassium (K)	3.48	3.97				
Sulfate (SO ₄)	3.33	68.5		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.194	10		10	
Chloride (Cl)	2.90	11.9		250		300
Fluoride (F)	<0.250	0.399	4.0	2.0		2.0
Phosphates (PO ₄)	0.0820	<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	63.9 *	74.5 *				
Total Hardness	47.2	143				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00177	0.00074	0.01		0.01	
Barium (Ba)	0.0616	0.0592	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00337	0.00434	1.3		1.3	1.0
Iron (Fe)	0.719	0.314		0.3		
Lead (Pb)	0.000612	<0.000500	0.15		0.15	
Manganese (Mn)	0.183	<0.100		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00150	0.00410				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00385	0.00191		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.76	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.01 *	7.58 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	125	346				
Turbidity (NTU)	21.9 *	0.20 *	0.3		0.3	
Threshold Odor Number	24F	3Cl				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
Mar-2017

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	92.0	198		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	0.925	<0.200		0.3		0.3
Calcium (Ca)	16.5	66.2				
Magnesium (Mg)	2.03	2.07				
Sodium (Na)	4.65	11.1				
Potassium (K)	3.70	3.94				
Sulfate (SO ₄)	2.40	62.4		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.106	10		10	
Chloride (Cl)	2.86	9.34		250		300
Fluoride (F)	<0.250	0.477	4.0	2.0		2.0
Phosphates (PO ₄)	0.136	<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	62.9 *	79.4 *				
Total Hardness	55.0	126				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00109	<0.00050	0.01		0.01	
Barium (Ba)	0.0667	0.0492	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00100	<0.00100	0.1		0.1	
Copper (Cu)	0.00258	0.00266	1.3		1.3	1.0
Iron (Fe)	0.925	<0.200		0.3		
Lead (Pb)	0.00123	<0.000500	0.15		0.15	
Manganese (Mn)	0.294	0.00375		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00153	0.00310				
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)	--	2.67	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.25 *	7.69 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	119	311				
Turbidity (NTU)	29.1 *	0.19 *	0.3		0.3	
Threshold Odor Number	17E	17Cl				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-2017

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	106	200		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	0.548	<0.200		0.3		0.3
Calcium (Ca)	14.6	49.7				
Magnesium (Mg)	2.07	2.50				
Sodium (Na)	3.37	11.2				
Potassium (K)	4.11	4.48				
Sulfate (SO ₄)	1.98	67.0		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.171	10		10	
Chloride (Cl)	2.68	9.82		250		300
Fluoride (F)	<0.250	0.439	4.0	2.0		2.0
Phosphates (PO ₄)	0.0910	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	59.5 *	70.5 *				
Total Hardness	51.0	118				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00143	0.00077	0.01		0.01	
Barium (Ba)	0.0608	0.0425	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00308	0.0157	1.3		1.3	1.0
Iron (Fe)	0.548	<0.200		0.3		
Lead (Pb)	0.000831	<0.000500	0.15		0.15	
Manganese (Mn)	0.154	0.00295		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00105	0.00228				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00264	0.00578		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.01	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.38 *	7.59 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	119	312				
Turbidity (NTU)	20.2 *	0.14 *	0.3		0.3	
Threshold Odor Number	70F	1Cl				3

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Note 3: * Identifies Monthly Average Process analyses.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Jan-2017

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	212		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	0.346	<0.200		0.3		0.3
Calcium (Ca)	16.8	48.0				
Magnesium (Mg)	2.12	2.44				
Sodium (Na)	5.49	12.1				
Potassium (K)	3.56	3.35				
Sulfate (SO ₄)	2.15	68.1		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.0710	10		10	
Chloride (Cl)	2.47	10.1		250		300
Fluoride (F)	<0.250	0.428	4.0	2.0		2.0
Phosphates (PO ₄)	0.0550	<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	59.2 *	74.8 *				
Total Hardness	51.6	134				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00138	0.00087	0.01		0.01	
Barium (Ba)	0.0563	0.0338	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00195	0.00330	1.3		1.3	1.0
Iron (Fe)	0.346	<0.200		0.3		
Lead (Pb)	0.000609	<0.000500	0.15		0.15	
Manganese (Mn)	0.0728	0.00528		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	<0.00100	0.00240				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00136	0.00142		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.99	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.26 *	7.72 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	115	326				
Turbidity (NTU)	12.2 *	0.10 *	0.3		0.3	
Threshold Odor Number	70F	2Cl				3

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