

NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham
Water Analysis
Dec-2016

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	70.0	60.0		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	0.290	0.234		0.3		0.3
Calcium (Ca)	17.7	70.4				
Magnesium (Mg)	2.28	2.98				
Sodium (Na)	5.39	12.7				
Potassium (K)	4.25	4.60				
Sulfate (SO ₄)	2.16	2.0		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	<0.0500	0.150	10		10	
Chloride (Cl)	2.38	2.37		250		300
Fluoride (F)	<0.250	<0.250	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	60.3 *	73.0 *				
Total Hardness	67.6	150				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00168	0.00093	0.01		0.01	
Barium (Ba)	0.0587	0.0373	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00282	0.00287	1.3		1.3	1.0
Iron (Fe)	0.290	0.234		0.3		
Lead (Pb)	0.000604	<0.000500	0.15		0.15	
Manganese (Mn)	0.102	0.00370		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	<0.00100	0.00261				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00222	0.00174		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.68	4.0		4.0	
Total coliform (Present / Absent)	--	A	A		A	
pH (Standard Units) @ 25°C	7.29 *	7.73 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	119	119				
Turbidity (NTU)	10.8 *	0.14 *	0.3		0.3	
Threshold Odor Number	50E	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
Nov-2016

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	200		500		1000
Silica (SiO ₂)	<2.00	<2.00				
Iron (Fe)	1.62	<0.200		0.3		0.3
Calcium (Ca)	14.7	58.1				
Magnesium (Mg)	1.86	2.69				
Sodium (Na)	4.11	12.3				
Potassium (K)	3.42	3.64				
Sulfate (SO ₄)	1.58	59.3		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.0860	0.396	10		10	
Chloride (Cl)	2.40	12.2		250		300
Fluoride (F)	<0.250	0.453	4.0	2.0		2.0
Phosphates (PO ₄)	0.284	<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	61.6 *	78.6 *				
Total Hardness	119	135				
Langelier Index	--	--				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00455	0.00104	0.01		0.01	
Barium (Ba)	0.0809	0.0438	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.0242	0.00434	1.3		1.3	1.0
Iron (Fe)	1.62	<0.200		0.3		
Lead (Pb)	0.00129	<0.000500	0.15		0.15	
Manganese (Mn)	0.275	0.00285		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00146	0.00271				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00050	<0.00050		0.10		0.1
Zinc (Zn)	0.00808	0.00184		5		5

Other Analysis

Chlorine Residual (mg/L)	--	2.85	4.0		4.0	
Total coliform (Present / Absent)	--	P	A		A	
pH (Standard Units) @ 25°C	7.60 *	7.67 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	135	329				
Turbidity (NTU)	17.2 *	0.18 *	0.3		0.3	
Threshold Odor Number	17W	2Cl				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
Water Analysis: Bonham Plant
Oct-2016

Generated: 11/14/2016

Mineral Analysis

	Raw	Treated	Standards			
			EPA Primary (mg/L)	EPA Secondary (mg/L)	TCEQ Primary (mg/L)	TCEQ Secondary (mg/L)
Residue on Evaporation	94.0	198		500		1000
Silica (SiO2)	3.39	3.07				
Iron (Fe)	0.393	0.185		0.3		0.3
Calcium (Ca)	15.5	53.8				
Magnesium (Mg)	2.01	2.21				
Sodium (Na)	5.29	12.0				
Potassium (K)	3.46	3.33				
Sulfate (SO4)	1.25	59.1		250		
Nitrite (NO2)	<0.0100	<0.0100	1		1	
Nitrate (NO3)	<0.0500	0.168	10		10	
Chloride (Cl)	2.48	11.3		250		300
Fluoride (F)	<0.125	0.385	4.0	2.0		2.0
Phosphates (PO4)	0.112	0.0326				

	(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	48.8	66.0				
Total Hardness	89.8	176				
Langelier Index	-	-				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00542	0.000981	0.01		0.01	
Barium (Ba)	0.0485	0.0480	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00125	<0.00125	0.1		0.1	
Copper (Cu)	0.00412	0.00477	1.3		1.3	1.0
Iron (Fe)	0.393	0.185		0.3		
Lead (Pb)	0.00125	<0.000250	0.15		0.15	
Manganese (Mn)	0.107	0.00309		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00101	0.00272				
Selenium (Se)	<0.000500	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00427	0.00403		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	8.70*	7.80*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	118	316				
Turbidity (NTU)	16.9	0.0800*	0.3		0.3	
Threshold Odor Number	70F	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.

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Note 3: * Identifies Monthly Average Process analyses.

North Texas Municipal Water District
Water Analysis: Bonham Plant
Aug-2016

Generated: 09/07/2016

Mineral Analysis

	Raw	Treated	Standards			
			EPA Primary (mg/L)	EPA Secondary (mg/L)	TCEQ Primary (mg/L)	TCEQ Secondary (mg/L)
Residue on Evaporation	92.0	214		500		1000
Silica (SiO2)	2.51	2.71				
Iron (Fe)	4.28	0.252		0.3		0.3
Calcium (Ca)	15.1	59.9				
Magnesium (Mg)	2.04	2.48				
Sodium (Na)	4.17	17.4				
Potassium (K)	3.60	3.57				
Sulfate (SO4)	1.93	66.5		250		
Nitrite (NO2)	<0.0100	<0.0100	1		1	
Nitrate (NO3)	<0.0500	0.261	10		10	
Chloride (Cl)	2.19	17.6		250		300
Fluoride (F)	<0.125	0.456	4.0	2.0		2.0
Phosphates (PO4)	0.222	0.0101				

	(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	50.0	54.7				
Total Hardness	61.8	135				
Langelier Index	-	-				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00591	0.00102	0.01		0.01	
Barium (Ba)	0.0779	0.0550	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	0.00178	<0.00125	0.1		0.1	
Copper (Cu)	0.0371	0.00596	1.3		1.3	1.0
Iron (Fe)	4.28	0.252		0.3		
Lead (Pb)	0.00233	<0.000250	0.15		0.15	
Manganese (Mn)	0.262	0.0118		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00251	0.00366				
Selenium (Se)	<0.000500	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0159	0.00646		5		5

Other Analysis

Chlorine Residual (mg/L)	-	1.76*	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)	109	340				
Turbidity (NTU)	20.8	0.0900*	0.3		0.3	
Threshold Odor Number	35F	ND				3

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Note 3: * Identifies Monthly Average Process analyses.

North Texas Municipal Water District
Water Analysis: Bonham Plant
Sep-2016

Generated: 10/11/2016

Mineral Analysis

	Raw	Treated	Standards			
			EPA Primary (mg/L)	EPA Secondary (mg/L)	TCEQ Primary (mg/L)	TCEQ Secondary (mg/L)
Residue on Evaporation	80.0	196		500		1000
Silica (SiO ₂)	5.03	4.60				
Iron (Fe)	0.493	0.196		0.3		0.3
Calcium (Ca)	14.3	46.7				
Magnesium (Mg)	2.01	2.77				
Sodium (Na)	2.94	15.6				
Potassium (K)	3.54	4.01				
Sulfate (SO ₄)	0	63.2		250		
Nitrite (NO ₂)	<0.0100	<0.0100	1		1	
Nitrate (NO ₃)	<0.0500	0.431	10		10	
Chloride (Cl)	2.44	15.5		250		300
Fluoride (F)	<0.125	0.444	4.0	2.0		2.0
Phosphates (PO ₄)	0.133	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	47.8	52.1				
Total Hardness	91.0	129				
Langelier Index	-	-				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00581	0.000955	0.01		0.01	
Barium (Ba)	0.113	0.0505	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00125	<0.00125	0.1		0.1	
Copper (Cu)	0.00611	0.00297	1.3		1.3	1.0
Iron (Fe)	0.493	0.196		0.3		
Lead (Pb)	0.000585	<0.000250	0.15		0.15	
Manganese (Mn)	0.298	0.00254		0.05		0.05
Mercury (Hg)	<0	<0	0.002		0.002	
Nickel (Ni)	0.000942	0.00284				
Selenium (Se)	<0.000500	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00372	0.00246		5		5

Other Analysis

Chlorine Residual (mg/L)	-	2.21*	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)	117	323				
Turbidity (NTU)	21.3	0.0900*	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

Water Analysis

Jul-2016

Generated: 08/11/2016

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)	3.32	3.16				
Iron (Fe)	4.21	0.206		0.3		0.3
Calcium (Ca)	16.6	58.1				
Magnesium (Mg)	1.98	2.44				
Sodium (Na)	3.77	12.7				
Potassium (K)	3.57	3.30				
Sulfate (SO ₄)	2.47	77.6		250		
Nitrite (NO ₂)	<0.0100	<0.0100	1		1	
Nitrate (NO ₃)	<0.0500	0.349	10		10	
Chloride (Cl)	2.35	12.7		250		300
Fluoride (F)	<0.125	0.429	4.0	2.0		2.0
Phosphates (PO ₄)	0.151	0.0160				

	(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	49.8	69.8				
Total Hardness	76.0	132				
Langelier Index	-	-				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00610	0.000657	0.01		0.01	
Barium (Ba)	0.301	0.0523	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	0.00440	<0.00125	0.1		0.1	
Copper (Cu)	0.0683	0.00708	1.3		1.3	1.0
Iron (Fe)	4.21	0.206		0.3		
Lead (Pb)	0.00305	<0.000250	0.15		0.15	
Manganese (Mn)	0.615	0.0113		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00395	0.00289				
Selenium (Se)	<0.000500	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0177	0.00321		5		5

Other Analysis

Chlorine Residual (mg/L)	-	1.80*	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)	104	326				
Turbidity (NTU)	23.9	0.120*	0.3		0.3	
Threshold Odor Number	8E	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.

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

Water Analysis

Jun-2016

Generated: 07/06/2016

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	190		500		1000
Silica (SiO ₂)	3.32	2.96				
Iron (Fe)	0.223	0.130		0.3		0.3
Calcium (Ca)	27.0	47.5				
Magnesium (Mg)	2.48	2.49				
Sodium (Na)	7.74	13.6				
Potassium (K)	4.44	4.07				
Sulfate (SO ₄)	7.66	61.7		250		
Nitrite (NO ₂)	<0.0100	<0.0100	1		1	
Nitrate (NO ₃)	0.233	0.328	10		10	
Chloride (Cl)	3.42	10.6		250		300
Fluoride (F)	0.131	0.309	4.0	2.0		2.0
Phosphates (PO ₄)	0.0890	0.0130				

	(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	72.1	62.8				
Total Hardness	68.0	110				
Langelier Index	-	-				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00394	<0.00250	0.01		0.01	
Barium (Ba)	0.0601	0.0549	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00182	0.0181	1.3		1.3	1.0
Iron (Fe)	0.223	0.130		0.3		
Lead (Pb)	0.00101	<0.000500	0.15		0.15	
Manganese (Mn)	0.0383	0.00973		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00175	0.00358				
Selenium (Se)	<0.000500	<0.000500	0.05		0.05	
Silver (Ag)	<0.000500	<0.000500		0.10		0.1
Zinc (Zn)	<0.00250	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.49*	4.0		4.0	
Total coliform (Present / Absent)	-	P	A		A	
pH (Standard Units) @ 25°C	7.30*	7.90*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	179	310				
Turbidity (NTU)	2.59	0.0600*	0.3		0.3	
Threshold Odor Number	0F	ND				3

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Note 3: * Identifies Monthly Average Process analyses.

North Texas Municipal Water District
Water Analysis
May-2016

Generated: 06/09/2016

Mineral Analysis

	Raw	Treated	Standards			
			<u>EPA</u>	<u>EPA</u>	<u>TCEQ</u>	<u>TCEQ</u>
	(mg/L)	(mg/L)	Primary	Secondary	Primary	Secondary
			(mg/L)	(mg/L)	(mg/L)	(mg/L)
Residue on Evaporation	122	180		500		1000
Silica (SiO ₂)	2.27	2.07				
Iron (Fe)	0.643	0.120		0.3		0.3
Calcium (Ca)	22.9	34.9				
Magnesium (Mg)	2.33	2.79				
Sodium (Na)	6.78	13.8				
Potassium (K)	3.84	4.16				
Sulfate (SO ₄)	8.15	65.3		250		
Nitrite (NO ₂)	<0.0100	<0.0100	1		1	
Nitrate (NO ₃)	0.346	0.484	10		10	
Chloride (Cl)	3.73	11.2		250		300
Fluoride (F)	0.129	0.316	4.0	2.0		2.0
Phosphates (PO ₄)	0.103	0.0270				

	(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	72.0	58.0				
Total Hardness	74.2	113				
Langelier Index	-	-				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	<0.00250	<0.00250	0.01		0.01	
Barium (Ba)	0.0653	0.0562	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00152	0.0190	1.3		1.3	1.0
Iron (Fe)	0.643	0.120		0.3		
Lead (Pb)	<0.000500	<0.000500	0.15		0.15	
Manganese (Mn)	0.0479	0.0121		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00195	0.00279				
Selenium (Se)	<0.000500	<0.000500	0.05		0.05	
Silver (Ag)	<0.000500	<0.000500		0.10		0.1
Zinc (Zn)	0.00364	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.40*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.60*	7.90*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	178	305				
Turbidity (NTU)	3.98	0.0600*	0.3		0.3	
Threshold Odor Number	2G	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
Water Analysis
Apr-2016

Regenerated: 05/12/2016

Mineral Analysis

	Raw	Treated	Standards			
			EPA Primary (mg/L)	EPA Secondary (mg/L)	TCEQ Primary (mg/L)	TCEQ Secondary (mg/L)
Residue on Evaporation	116	178		500		1000
Silica (SiO ₂)	1.05	1.19				
Iron (Fe)	0.390	0.128		0.3		0.3
Calcium (Ca)	22.3	43.2				
Magnesium (Mg)	2.28	2.78				
Sodium (Na)	6.83	13.6				
Potassium (K)	3.87	4.25				
Sulfate (SO ₄)	8.21	68.6		250		
Nitrite (NO ₂)	<0.0100	<0.0100	1		1	
Nitrate (NO ₃)	0.386	0.409	10		10	
Chloride (Cl)	3.70	10.7		250		300
Fluoride (F)	0.125	0.125	4.0	2.0		2.0
Phosphates (PO ₄)	0.0590	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	71.5	55.7				
Total Hardness	68.6	104				
Langelier Index	-	-				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	<0.00250	<0.00250	0.01		0.01	
Barium (Ba)	0.0623	0.0544	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.00129	0.0290	1.3		1.3	1.0
Iron (Fe)	0.390	0.128		0.3		
Lead (Pb)	<0.000500	<0.000500	0.15		0.15	
Manganese (Mn)	0.0284	0.0176		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00180	0.00223				
Selenium (Se)	<0.000500	<0.000500	0.05		0.05	
Silver (Ag)	<0.000500	<0.000500		0.10		0.1
Zinc (Zn)	0.00549	0.00371		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.57*	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)	169	286				
Turbidity (NTU)	7.47	0.0600*	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
Water Analysis
Mar-2016

Regenerated: 05/05/2016

Mineral Analysis

	Raw	Treated	Standards			
			EPA Primary (mg/L)	EPA Secondary (mg/L)	TCEQ Primary (mg/L)	TCEQ Secondary (mg/L)
Residue on Evaporation	116	184		500		1000
Silica (SiO ₂)	5.14	4.74				
Iron (Fe)	0.469	<0.200		0.3		0.3
Calcium (Ca)	25.4	43.2				
Magnesium (Mg)	2.45	2.77				
Sodium (Na)	7.72	14.9				
Potassium (K)	4.34	4.53				
Sulfate (SO ₄)	9.06	67.6		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.470	0.500	10		10	
Chloride (Cl)	4.15	13.4		250		300
Fluoride (F)	<0.250	<0.250	4.0	2.0		2.0
Phosphates (PO ₄)	0.0690	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	70.1	56.9				
Total Hardness	90.2	117				
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)	0.0599	0.0525	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00127	0.0597	1.3		1.3	1.0
Iron (Fe)	0.469	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0450	0.00768		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00186	0.00213				
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)	-	3.61*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.80*	7.70*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	188	313				
Turbidity (NTU)	8.46	0.0600*	0.3		0.3	
Threshold Odor Number	6F	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

Water Analysis

Feb-2016

Generated: 03/14/2016

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	142	196		500		1000
Silica (SiO ₂)	5.75	5.55				
Iron (Fe)	0.522	<0.200		0.3		0.3
Calcium (Ca)	29.6	48.8				
Magnesium (Mg)	2.83	2.96				
Sodium (Na)	8.06	13.9				
Potassium (K)	4.91	4.69				
Sulfate (SO ₄)	9.40	78.5		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.486	0.518	10		10	
Chloride (Cl)	4.34	12.3		250		300
Fluoride (F)	<0.250	0	4.0	2.0		2.0
Phosphates (PO ₄)	0.0726	<0.0200				

	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)
Total Alkalinity	72.3	55.3				
Total Hardness	70.4	113				
Langelier Index	-	[- 0.116]				

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)	0.0612	0.0515	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00117	0.0184	1.3		1.3	1.0
Iron (Fe)	0.522	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0472	0.0154		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00186	0.00229				
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)	-	3.80*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	8.00*	8.20*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	184	318				
Turbidity (NTU)	11.9	0*	0.3		0.3	
Threshold Odor Number	17F	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

Water Analysis

Jan-2016

Generated: 02/16/2016

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	104	150		500		1000
Silica (SiO ₂)	6.20	5.64				
Iron (Fe)	0.494	0.139		0.3		0.3
Calcium (Ca)	31.0	48.8				
Magnesium (Mg)	2.83	3.07				
Sodium (Na)	8.71	15.6				
Potassium (K)	5.19	5.19				
Sulfate (SO ₄)	7.74	66.3		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.405	0.431	10		10	
Chloride (Cl)	3.98	11.1		250		300
Fluoride (F)	<0.250	0	4.0	2.0		2.0
Phosphates (PO ₄)	0.0870	0.0200				

	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)	(mg/L as CaCO ₃)
Total Alkalinity	80.5	61.5				
Total Hardness	72.0	102				
Langelier Index	-	[- 0.747]				

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)	0.0566	0.0450	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00126	0.0375	1.3		1.3	1.0
Iron (Fe)	0.494	0.139		0.3		
Lead (Pb)	0.000409	<0.000250	0.15		0.15	
Manganese (Mn)	0.0500	0.0104		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00261	0.00204				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0162	<0.00250		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.55*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	7.80*	7.50*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	169	284				
Turbidity (NTU)	8.39	0.0600*	0.3		0.3	
Threshold Odor Number	70F	1.4CL				3

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