

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

Standards			
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Mineral Analysis

	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	422	260		500		1000
Silica (SiO ₂)	8.66	7.72				
Iron (Fe)	0.332	0.138		0.3		0.3
Calcium (Ca)	73.3	57.7				
Magnesium (Mg)	14.0	3.96				
Sodium (Na)	103	58.2				
Potassium (K)	6.28	5.93				
Sulfate (SO ₄)	84.9	87.8		250		
Nitrite (NO ₂)	<0.0100	<0.0100	1		1	
Nitrate (NO ₃)	0.531	0.784	10		10	
Chloride (Cl)	96.7	22.6		250		300
Fluoride (F)	0.224	0.333 *	4.0	2.0		2.0
Phosphates (PO ₄)	0.0630	0.0170				

	(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	114 *	83.4 *				
Total Hardness	185	123				
Langelier Index		0.0077				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00218	0.00052	0.01		0.01	
Barium (Ba)	0.0805	0.0398	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00125	<0.00125	0.1		0.1	
Copper (Cu)	0.0125	0.00226	1.3		1.3	1.0
Iron (Fe)	0.332	0.138		0.3		
Lead (Pb)	0.000526	0.000256	0.15		0.15	
Manganese (Mn)	0.0314	0.00786		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00330	0.00514				
Selenium (Se)	0.00101	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00600	0.0214		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.72 *	4.0		4.0	
Total coliform (Present / Absent)	P	A *	A		A	
pH (Standard Units) @ 25°C	8.32 *	8.15 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	660 *	453 *				
Turbidity (NTU)	15.1 *	0.0591 *	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 - Wylie
Water Analysis
Nov-2016

Standards			
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Mineral Analysis

	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	358	332		500		1000
Silica (SiO ₂)	6.94	6.99				
Iron (Fe)	0.297	0.134		0.3		0.3
Calcium (Ca)	45.4	48.6				
Magnesium (Mg)	8.06	7.23				
Sodium (Na)	46.4	54.2				
Potassium (K)	5.70	6.09				
Sulfate (SO ₄)	59.9	109		250		
Nitrite (NO ₂)	0.0110	<0.0100	1		1	
Nitrate (NO ₃)	0.335	0.442	10		10	
Chloride (Cl)	62.2	57.1		250		300
Fluoride (F)	0.239	0.315 *	4.0	2.0		2.0
Phosphates (PO ₄)	0.0740	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	109 *	85.4 *				
Total Hardness	150	149				
Langelier Index		0.0375				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00278	0.00061	0.01		0.01	
Barium (Ba)	0.0666	0.0468	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00125	<0.00125	0.1		0.1	
Copper (Cu)	0.00691	0.00178	1.3		1.3	1.0
Iron (Fe)	0.297	0.134		0.3		
Lead (Pb)	0.000786	0.000470	0.15		0.15	
Manganese (Mn)	0.0266	0.0143		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00450	0.00718				
Selenium (Se)	0.000874	0.000521	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00437	0.00523		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.86 *	4.0		4.0	
Total coliform (Present / Absent)	P	A *	A		A	
pH (Standard Units) @ 25°C	8.23 *	8.13 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	531 *	541 *				
Turbidity (NTU)	13.1 *	0.0672 *	0.3		0.3	
Threshold Odor Number	17F	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: Wylie 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	182	246		500		1000
Silica (SiO ₂)	8.94	8.17				
Iron (Fe)	0.335	0.111		0.3		0.3
Calcium (Ca)	33.5	36.8				
Magnesium (Mg)	2.56	2.70				
Sodium (Na)	17.1	35.3				
Potassium (K)	4.39	4.96				
Sulfate (SO ₄)	25.0	76.4		250		
Nitrite (NO ₂)	0.0124	<0.0100	1		1	
Nitrate (NO ₃)	0.0566	0.164	10		10	
Chloride (Cl)	13.7	22.2		250		300
Fluoride (F)	0.235	0.243	4.0	2.0		2.0
Phosphates (PO ₄)	0.0999	0.0230				

	(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	81.7	64.7				
Total Hardness	98.6	96.8				
Langelier Index	-	-				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00398	0.000678	0.01		0.01	
Barium (Ba)	0.0460	0.0367	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00125	<0.00125	0.1		0.1	
Copper (Cu)	0.00448	0.00295	1.3		1.3	1.0
Iron (Fe)	0.335	0.111		0.3		
Lead (Pb)	0.000402	0.000329	0.15		0.15	
Manganese (Mn)	0.0379	0.0141		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00275	0.00446				
Selenium (Se)	<0.000500	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00543	0.00489		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.38*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	*	*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	280	393				
Turbidity (NTU)	14.8	0.0700*	0.3		0.3	
Threshold Odor Number	50F	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: Wylie 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	278	226		500		1000
Silica (SiO ₂)	8.45	8.56				
Iron (Fe)	0.284	0.106		0.3		0.3
Calcium (Ca)	36.4	29.0				
Magnesium (Mg)	9.23	3.04				
Sodium (Na)	41.5	32.4				
Potassium (K)	6.34	5.47				
Sulfate (SO ₄)	53.4	74.7		250		
Nitrite (NO ₂)	0.0200	<0.0100	1		1	
Nitrate (NO ₃)	<0.0500	0.160	10		10	
Chloride (Cl)	56.7	22.1		250		300
Fluoride (F)	0.231	0.309	4.0	2.0		2.0
Phosphates (PO ₄)	0.0760	0.0140				

	(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	94.0	66.3				
Total Hardness	155	111				
Langelier Index	-	[+ 0.0680]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00443	0.000753	0.01		0.01	
Barium (Ba)	0.0720	0.0323	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.000500	<0.00125	0.1		0.1	
Copper (Cu)	0.0162	0.00162	1.3		1.3	1.0
Iron (Fe)	0.284	0.106		0.3		
Lead (Pb)	0.000522	<0.000250	0.15		0.15	
Manganese (Mn)	0.0332	0.0124		0.05		0.05
Mercury (Hg)	<0	<0	0.002		0.002	
Nickel (Ni)	0.00302	0.00472				
Selenium (Se)	<0.000500	<0.000500	0.05		0.05	
Silver (Ag)	<0.00250	<0.000250		0.10		0.1
Zinc (Zn)	0.00452	0.00481		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.51*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	8.18*	8.07*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	501	390				
Turbidity (NTU)	13.0	0.0775*	0.3		0.3	
Threshold Odor Number	8F	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
Water Analysis: Wylie 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	176	244		500		1000
Silica (SiO2)	4.37	3.01				
Iron (Fe)	0.254	0.125		0.3		0.3
Calcium (Ca)	37.1	38.1				
Magnesium (Mg)	3.07	2.98				
Sodium (Na)	17.6	39.7				
Potassium (K)	5.22	4.83				
Sulfate (SO4)	22.8	63.0		250		
Nitrite (NO2)	<0.0100	<0.0100	1		1	
Nitrate (NO3)	<0.0500	<0.0500	10		10	
Chloride (Cl)	12.4	16.3		250		300
Fluoride (F)	0.224	0.218	4.0	2.0		2.0
Phosphates (PO4)	0.0615	0.0118				

	(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	80.3	77.0				
Total Hardness	95.4	106				
Langelier Index	-	[+ 0.548]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00513	0.000982	0.01		0.01	
Barium (Ba)	0.0412	0.0416	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00125	<0.00125	0.1		0.1	
Copper (Cu)	0.0122	0.00299	1.3		1.3	1.0
Iron (Fe)	0.254	0.125		0.3		
Lead (Pb)	0.000270	<0.000250	0.15		0.15	
Manganese (Mn)	0.0298	0.00985		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00299	0.00466				
Selenium (Se)	0.000534	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00735	0.00246		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.46*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	8.36*	8.40*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	266	388				
Turbidity (NTU)	13.5	0.0700*	0.3		0.3	
Threshold Odor Number	35F	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	180	242		500		1000
Silica (SiO ₂)	3.58	4.19				
Iron (Fe)	0.355	0.140		0.3		0.3
Calcium (Ca)	46.1	44.3				
Magnesium (Mg)	3.18	3.06				
Sodium (Na)	15.1	34.5				
Potassium (K)	4.79	4.58				
Sulfate (SO ₄)	23.6	77.3		250		
Nitrite (NO ₂)	<0.0100	<0.0100	1		1	
Nitrate (NO ₃)	<0.0500	<0.0500	10		10	
Chloride (Cl)	10.7	18.8		250		300
Fluoride (F)	0.211	0.204	4.0	2.0		2.0
Phosphates (PO ₄)	0.0610	0.0120				

	(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	116	94.3				
Total Hardness	153	149				
Langelier Index	-	[+ 0.459]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00444	0.000675	0.01		0.01	
Barium (Ba)	0.0587	0.0411	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00125	<0.00125	0.1		0.1	
Copper (Cu)	0.0258	0.00316	1.3		1.3	1.0
Iron (Fe)	0.355	0.140		0.3		
Lead (Pb)	0.000463	<0.000250	0.15		0.15	
Manganese (Mn)	0.0596	0.00908		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00287	0.00409				
Selenium (Se)	<0.000500	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00529	0.00521		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.41*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	8.18*	8.09*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	292	398				
Turbidity (NTU)	14.5	0.0650*	0.3		0.3	
Threshold Odor Number	12F	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
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	290	344		500		1000
Silica (SiO ₂)	5.93	4.63				
Iron (Fe)	0.298	0.119		0.3		0.3
Calcium (Ca)	55.5	62.2				
Magnesium (Mg)	6.03	6.09				
Sodium (Na)	40.0	64.8				
Potassium (K)	4.57	4.87				
Sulfate (SO ₄)	44.7	93.1		250		
Nitrite (NO ₂)	0.0182	<0.0100	1		1	
Nitrate (NO ₃)	0.404	0.512	10		10	
Chloride (Cl)	42.8	48.5		250		300
Fluoride (F)	0.199	0.197	4.0	2.0		2.0
Phosphates (PO ₄)	0.0500	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	119	103				
Total Hardness	154	154				
Langelier Index	-	[+ 0.414]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00251	<0.00250	0.01		0.01	
Barium (Ba)	0.0654	0.0547	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.0341	0.00337	1.3		1.3	1.0
Iron (Fe)	0.298	0.119		0.3		
Lead (Pb)	<0.000500	<0.000500	0.15		0.15	
Manganese (Mn)	0.0891	0.0101		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00333	0.00521				
Selenium (Se)	<0.000500	0.000662	0.05		0.05	
Silver (Ag)	<0.000500	<0.000500		0.10		0.1
Zinc (Zn)	0.0138	0.00477		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.40*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	7.91*	8.09*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	487	574				
Turbidity (NTU)	14.2	0.0650*	0.3		0.3	
Threshold Odor Number	12F	ND				3

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Note 3: * Identifies Monthly Average Process analyses.

North Texas Municipal Water District
Water Analysis
May-2016

Generated: 06/06/2016

Mineral Analysis

	Raw	Treated	Standards			
			EPA Primary (mg/L)	EPA Secondary (mg/L)	TCEQ Primary (mg/L)	TCEQ Secondary (mg/L)
Residue on Evaporation	292	364		500		1000
Silica (SiO ₂)	4.16	3.85				
Iron (Fe)	0.569	0.133		0.3		0.3
Calcium (Ca)	48.7	55.9				
Magnesium (Mg)	6.67	6.99				
Sodium (Na)	31.3	58.9				
Potassium (K)	4.56	4.70				
Sulfate (SO ₄)	47.0	104		250		
Nitrite (NO ₂)	<0.0100	<0.0100	1		1	
Nitrate (NO ₃)	0.498	0.732	10		10	
Chloride (Cl)	43.6	56.0		250		300
Fluoride (F)	0.198	0.435	4.0	2.0		2.0
Phosphates (PO ₄)	0.0820	0.0280				

	(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	126	103				
Total Hardness	170	181				
Langelier Index	-	[+ 0.711]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00263	<0.00250	0.01		0.01	
Barium (Ba)	0.0660	0.0532	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.0101	0.00390	1.3		1.3	1.0
Iron (Fe)	0.569	0.133		0.3		
Lead (Pb)	0.000528	<0.000500	0.15		0.15	
Manganese (Mn)	0.0397	0.00320		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00369	0.00507				
Selenium (Se)	<0.000500	0.000524	0.05		0.05	
Silver (Ag)	<0.000500	<0.000500		0.10		0.1
Zinc (Zn)	0.00909	0.00591		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.51*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	8.13*	8.36*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	496	624				
Turbidity (NTU)	17.9	0.0600*	0.3		0.3	
Threshold Odor Number	1.4F	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	312	382		500		1000
Silica (SiO2)	2.54	2.45				
Iron (Fe)	0.618	0.149		0.3		0.3
Calcium (Ca)	65.4	66.7				
Magnesium (Mg)	6.95	7.07				
Sodium (Na)	45.0	67.2				
Potassium (K)	4.67	4.72				
Sulfate (SO4)	51.3	124		250		
Nitrite (NO2)	<0.0100	<0.0100	1		1	
Nitrate (NO3)	0.351	0.441	10		10	
Chloride (Cl)	45.6	63.0		250		300
Fluoride (F)	0.192	0.473	4.0	2.0		2.0
Phosphates (PO4)	0.0750	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	130	100				
Total Hardness	179	173				
Langelier Index	-	[+ 0.503]				

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)	0.0621	0.0532	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00250	<0.00250	0.1		0.1	
Copper (Cu)	0.0191	0.00199	1.3		1.3	1.0
Iron (Fe)	0.618	0.149		0.3		
Lead (Pb)	0.00106	<0.000500	0.15		0.15	
Manganese (Mn)	0.0217	0.00424		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00357	0.00504				
Selenium (Se)	<0.000500	0.000578	0.05		0.05	
Silver (Ag)	<0.000500	<0.000500		0.10		0.1
Zinc (Zn)	0.0247	0.00424		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.22*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	8.51*	8.21*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	509	610				
Turbidity (NTU)	19.9	0.0600*	0.3		0.3	
Threshold Odor Number	12E	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: 04/27/2016

Mineral Analysis

	Raw	Treated	Standards			
			EPA Primary (mg/L)	EPA Secondary (mg/L)	TCEQ Primary (mg/L)	TCEQ Secondary (mg/L)
Residue on Evaporation	304	348		500		1000
Silica (SiO ₂)	5.54	5.09				
Iron (Fe)	0.741	0.201		0.3		0.3
Calcium (Ca)	63.1	63.6				
Magnesium (Mg)	6.73	6.19				
Sodium (Na)	44.8	57.0				
Potassium (K)	5.07	4.99				
Sulfate (SO ₄)	51.0	112		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.461	0.468	10		10	
Chloride (Cl)	53.2	58.0		250		300
Fluoride (F)	0.182	0.353	4.0	2.0		2.0
Phosphates (PO ₄)	0.0870	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	120	96.5				
Total Hardness	177	176				
Langelier Index	-	[- 0.0798]				

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)	0.0616	0.0461	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0296	0.00496	1.3		1.3	1.0
Iron (Fe)	0.741	0.201		0.3		
Lead (Pb)	0.593	<0.00100	0.15		0.15	
Manganese (Mn)	0.0347	0.00457		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00361	0.00454				
Selenium (Se)	0.598	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.0149	0.00623		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.85*	4.0		4.0	
Total coliform (Present / Absent)	P	A	A		A	
pH (Standard Units) @ 25°C	8.54*	7.91*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	537	603				
Turbidity (NTU)	28.1	0.0567*	0.3		0.3	
Threshold Odor Number	24F	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

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	210	264		500		1000
Silica (SiO ₂)	7.99	7.20				
Iron (Fe)	0.568	<0.200		0.3		0.3
Calcium (Ca)	58.2	61.0				
Magnesium (Mg)	2.84	2.79				
Sodium (Na)	12.7	38.9				
Potassium (K)	4.81	4.72				
Sulfate (SO ₄)	25.5	120		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.597	0.622	10		10	
Chloride (Cl)	11.2	17.9		250		300
Fluoride (F)	<0.250	0	4.0	2.0		2.0
Phosphates (PO ₄)	0.0826	<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	114	52.1				
Total Hardness	139	127				
Langelier Index	-	[+ 0.144]				

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)	0.0475	0.0402	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00313	0.00152	1.3		1.3	1.0
Iron (Fe)	0.568	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0451	0.00182		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00348	0.00754				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00605	<0.00500		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.63*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	8.60*	8.42*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	323	418				
Turbidity (NTU)	15.4	0.290*	0.3		0.3	
Threshold Odor Number	24F	1.4CL				3

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Note 3: * Identifies Monthly Average Process analyses.

North Texas Municipal Water District

Water Analysis

Jan-2016

Generated: 02/10/2016

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	278	336		500		1000
Silica (SiO ₂)	7.87	6.88				
Iron (Fe)	0.363	0.171		0.3		0.3
Calcium (Ca)	67.9	55.9				
Magnesium (Mg)	7.87	7.48				
Sodium (Na)	47.9	67.4				
Potassium (K)	6.03	5.77				
Sulfate (SO ₄)	52.4	113		250		
Nitrite (NO ₂)	<0.0200	<0.0200	1		1	
Nitrate (NO ₃)	0.629	0.632	10		10	
Chloride (Cl)	52.4	54.5		250		300
Fluoride (F)	<0.250	0.207	4.0	2.0		2.0
Phosphates (PO ₄)	0.0650	0.0150				

	(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	112	84.2				
Total Hardness	149	152				
Langelier Index	-	[- 0.0443]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00559	<0.00500	0.01		0.01	
Barium (Ba)	0.0545	0.0499	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0131	0.00310	1.3		1.3	1.0
Iron (Fe)	0.363	0.171		0.3		
Lead (Pb)	0.000309	<0.000250	0.15		0.15	
Manganese (Mn)	0.0211	0.00866		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00302	0.00539				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00734	0.00550		5		5

Other Analysis

Chlorine Residual (mg/L)	-	3.74*	4.0		4.0	
Total coliform (Present / Absent)	-	A	A		A	
pH (Standard Units) @ 25°C	8.35*	8.06*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	473	570				
Turbidity (NTU)	14.4	0.0900*	0.3		0.3	
Threshold Odor Number	50F	1.4CL				3

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