

NORTH TEXAS MUNICIPAL WATER DISTRICT - Wylie

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	458	310		500		1000
Silica (SiO ₂)	8.71	8.01				
Iron (Fe)	0.401	0.124		0.3		0.3
Calcium (Ca)	77.5	48.5				
Magnesium (Mg)	12.5	4.16				
Sodium (Na)	111	46.1				
Potassium (K)	5.94	5.16				
Sulfate (SO ₄)	42.9	47.1		250		
Nitrite (NO ₂)	<0.0100	<0.0100	1		1	
Nitrate (NO ₃)	0.581	0.826	10		10	
Chloride (Cl)	49.1	14.0		250		300
Fluoride (F)	0.239	0.332 *	4.0	2.0		2.0
Phosphates (PO ₄)	0.0450	<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	118 *	95.6 *				
Total Hardness	192	140				
Langelier Index		0.3107				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00192	0.00048	0.01		0.01	
Barium (Ba)	0.0746	0.0444	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00125	<0.00125	0.1		0.1	
Copper (Cu)	0.0106	0.00115	1.3		1.3	1.0
Iron (Fe)	0.401	0.124		0.3		
Lead (Pb)	0.00110	0.000297	0.15		0.15	
Manganese (Mn)	0.0402	0.00222		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00308	0.00456				
Selenium (Se)	0.000904	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00532	0.0228		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.94 *	4.0		4.0	
Total coliform (Present / Absent)	P	A *	A		A	
pH (Standard Units) @ 25°C	8.32 *	8.17 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	698 *	686 *				
Turbidity (NTU)	14.0 *	0.0583 *	0.3		0.3	
Threshold Odor Number	100F	1.4Cl				3

Note 1: National Primary Drinking Water Regulations or Primary Standards are legally enforceable standards. National Secondary Drinking Water Regulations or Secondary Standards are non-enforceable guidelines regulating contaminants that may cause cosmetic or aesthetic effects In Drinking Water.

Note 2: TCEQ Primary Standards are the maximum contaminant level allowed for each constituent. TCEQ Primary Standards are legally enforceable standards.

Note 3: * Identifies Monthly Average Process analyses.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Wylie

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	500	460		500		1000
Silica (SiO2)	6.34	6.14				
Iron (Fe)	0.527	0.167		0.3		0.3
Calcium (Ca)	91.2	85.1				
Magnesium (Mg)	15.4	11.4				
Sodium (Na)	123	121				
Potassium (K)	7.66	7.10				
Sulfate (SO4)	98.4	140		250		
Nitrite (NO2)	<0.0100	<0.0100	1		1	
Nitrate (NO3)	0.732	0.846	10		10	
Chloride (Cl)	115	90.7		250		300
Fluoride (F)	0.242	0.369 *	4.0	2.0		2.0
Phosphates (PO4)	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	117 *	99.6 *				
Total Hardness	206	183				
Langelier Index		0.3197				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00173	0.00045	0.01		0.01	
Barium (Ba)	0.0828	0.0582	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00125	<0.00125	0.1		0.1	
Copper (Cu)	0.0165	0.00215	1.3		1.3	1.0
Iron (Fe)	0.527	0.167		0.3		
Lead (Pb)	0.000808	0.000405	0.15		0.15	
Manganese (Mn)	0.0268	0.00244		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00339	0.00542				
Selenium (Se)	0.000770	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00682	0.00240		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	8.28 *	8.28 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	632 *	638 *				
Turbidity (NTU)	20.8 *	0.0588 *	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.

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Note 3: * Identifies Monthly Average Process analyses.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Wylie

Water Analysis

Mar-2017

<u>Mineral Analysis</u>	<u>Standards</u>					
	<u>Raw</u>	<u>Treated</u>	<u>EPA Primary</u>	<u>EPA Secondary</u>	<u>TCEQ Primary</u>	<u>TCEQ Secondary</u>
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Residue on Evaporation	588	480		500		1000
Silica (SiO2)	4.72	4.40				
Iron (Fe)	0.633	0.198		0.3		0.3
Calcium (Ca)	90.6	77.4				
Magnesium (Mg)	16.5	9.43				
Sodium (Na)	130	102				
Potassium (K)	6.77	6.31				
Sulfate (SO4)	114	126		250		
Nitrite (NO2)	0.0200	<0.0100	1		1	
Nitrate (NO3)	0.798	0.975	10		10	
Chloride (Cl)	135	80.7		250		300
Fluoride (F)	0.263	0.333 *	4.0	2.0		2.0
Phosphates (PO4)	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	125 *	105 *				
Total Hardness	230	186				
Langelier Index		0.2547				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00135	<0.00025	0.01		0.01	
Barium (Ba)	0.0891	0.0637	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	0.000953	<0.000500	0.1		0.1	
Copper (Cu)	0.00641	0.00593	1.3		1.3	1.0
Iron (Fe)	0.633	0.198		0.3		
Lead (Pb)	0.000430	<0.000250	0.15		0.15	
Manganese (Mn)	0.0311	0.0263		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00439	0.00652				
Selenium (Se)	<0.000500	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00485	0.00549		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.48 *	4.0		4.0	
Total coliform (Present / Absent)	--	A *	A		A	
pH (Standard Units) @ 25°C	8.31 *	8.07 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	754 *	787 *				
Turbidity (NTU)	23.5 *	0.0643 *	0.3		0.3	
Threshold Odor Number	100G	100Cl				3

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NORTH TEXAS MUNICIPAL WATER DISTRICT - Wylie

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	624	556		500		1000
Silica (SiO2)	4.00	4.07				
Iron (Fe)	0.583	0.288		0.3		0.3
Calcium (Ca)	91.8	80.2				
Magnesium (Mg)	18.2	13.3				
Sodium (Na)	131	113				
Potassium (K)	6.50	6.48				
Sulfate (SO4)	116	137		250		
Nitrite (NO2)	<0.0100	<0.0100	1		1	
Nitrate (NO3)	0.619	0.718	10		10	
Chloride (Cl)	138	108		250		300
Fluoride (F)	0.259	0.347 *	4.0	2.0		2.0
Phosphates (PO4)	0.0470	<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	122 *	106 *				
Total Hardness	236	199				
Langelier Index		0.3550				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00209	0.00105	0.01		0.01	
Barium (Ba)	0.0898	0.0707	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00125	<0.00125	0.1		0.1	
Copper (Cu)	0.00234	0.00622	1.3		1.3	1.0
Iron (Fe)	0.583	0.288		0.3		
Lead (Pb)	<0.000250	<0.000250	0.15		0.15	
Manganese (Mn)	0.0224	0.00089		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00470	0.00616				
Selenium (Se)	0.00156	0.00208	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00456	0.00489		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.34 *	4.0		4.0	
Total coliform (Present / Absent)	--	A *	A		A	
pH (Standard Units) @ 25°C	8.35 *	8.12 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	789 *	846 *				
Turbidity (NTU)	17.9 *	0.0630 *	0.3		0.3	
Threshold Odor Number	24F	3Cl				3

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NORTH TEXAS MUNICIPAL WATER DISTRICT - Wylie

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	484	562		500		1000
Silica (SiO2)	2.76	2.66				
Iron (Fe)	0.372	0.167		0.3		0.3
Calcium (Ca)	72.2	78.5				
Magnesium (Mg)	10.1	10.9				
Sodium (Na)	84.5	113				
Potassium (K)	5.96	6.32				
Sulfate (SO4)	83.8	128		250		
Nitrite (NO2)	0.0100	<0.0100	1		1	
Nitrate (NO3)	0.595	0.699	10		10	
Chloride (Cl)	87.6	98.6		250		300
Fluoride (F)	0.282	0.314 *	4.0	2.0		2.0
Phosphates (PO4)	0.0540	<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	117 *	105 *				
Total Hardness	196	199				
Langelier Index		0.7280				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00169	0.00051	0.01		0.01	
Barium (Ba)	0.0713	0.0636	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	0.000628	<0.000500	0.1		0.1	
Copper (Cu)	0.0159	0.00256	1.3		1.3	1.0
Iron (Fe)	0.372	0.167		0.3		
Lead (Pb)	0.000521	<0.000250	0.15		0.15	
Manganese (Mn)	0.0216	0.00185		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00475	0.00604				
Selenium (Se)	0.000742	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00493	0.00337		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.33 *	4.0		4.0	
Total coliform (Present / Absent)	--	A *	A		A	
pH (Standard Units) @ 25°C	8.18 *	8.06 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	753 *	779 *				
Turbidity (NTU)	15.5 *	0.0677 *	0.3		0.3	
Threshold Odor Number	50F	3Cl				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 - Wylie

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	532	304		500		1000
Silica (SiO2)	3.37	2.45				
Iron (Fe)	0.305	0.179		0.3		0.3
Calcium (Ca)	85.0	67.2				
Magnesium (Mg)	16.7	5.12				
Sodium (Na)	152	91.9				
Potassium (K)	7.47	6.70				
Sulfate (SO4)	124	109		250		
Nitrite (NO2)	<0.0100	<0.0100	1		1	
Nitrate (NO3)	0.156	0.208	10		10	
Chloride (Cl)	153	44.0		250		300
Fluoride (F)	0.265	0.250 *	4.0	2.0		2.0
Phosphates (PO4)	0.0290	<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	99.2 *	85.9 *				
Total Hardness	203	124				
Langelier Index		0.2390				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00230	0.00047	0.01		0.01	
Barium (Ba)	0.0762	0.0480	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.000500	<0.000500	0.1		0.1	
Copper (Cu)	0.0169	0.00661	1.3		1.3	1.0
Iron (Fe)	0.305	0.179		0.3		
Lead (Pb)	0.000320	0.000537	0.15		0.15	
Manganese (Mn)	0.0194	0.0207		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00410	0.00716				
Selenium (Se)	0.000815	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00357	0.0202		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.43 *	4.0		4.0	
Total coliform (Present / Absent)	--	A *	A		A	
pH (Standard Units) @ 25°C	8.15 *	8.14 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	722 *	762 *				
Turbidity (NTU)	14.1 *	0.0654 *	0.3		0.3	
Threshold Odor Number	6G	17Cl				3

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Note 3: * Identifies Monthly Average Process analyses.

NORTH TEXAS MUNICIPAL WATER DISTRICT - Wylie

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	538	452		500		1000
Silica (SiO2)	4.51	3.87				
Iron (Fe)	0.314	0.114		0.3		0.3
Calcium (Ca)	48.4	47.4				
Magnesium (Mg)	10.5	8.92				
Sodium (Na)	68.7	87.2				
Potassium (K)	6.23	5.69				
Sulfate (SO4)	96.3	150		250		
Nitrite (NO2)	0.0110	<0.0100	1		1	
Nitrate (NO3)	0.0950	0.167	10		10	
Chloride (Cl)	95.7	98.4		250		300
Fluoride (F)	0.292	0.269 *	4.0	2.0		2.0
Phosphates (PO4)	0.0730	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	90.4 *	73.4 *				
Total Hardness	157	152				
Langelier Index		-0.3720				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00462	0.00055	0.01		0.01	
Barium (Ba)	0.0709	0.0515	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.000500	<0.000500	0.1		0.1	
Copper (Cu)	0.0141	0.00334	1.3		1.3	1.0
Iron (Fe)	0.314	0.114		0.3		
Lead (Pb)	<0.000250	<0.000250	0.15		0.15	
Manganese (Mn)	0.0536	0.00553		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00385	0.00597				
Selenium (Se)	0.000631	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00543	0.00738		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	8.07 *	8.06 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	672 *	666 *				
Turbidity (NTU)	10.6 *	0.0670 *	0.3		0.3	
Threshold Odor Number	6E	3CI				3

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NORTH TEXAS MUNICIPAL WATER DISTRICT - Wylie

Water Analysis

Aug-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	330	404		500		1000
Silica (SiO2)	5.70	5.17				
Iron (Fe)	<10.0	0.190		0.3		0.3
Calcium (Ca)	52.1	47.3				
Magnesium (Mg)	9.34	9.91				
Sodium (Na)	80.0	111				
Potassium (K)	6.37	6.56				
Sulfate (SO4)	70.4	115		250		
Nitrite (NO2)	<0.0100	<0.0100	1		1	
Nitrate (NO3)	<0.0500	0.0920	10		10	
Chloride (Cl)	64.6	75.6		250		300
Fluoride (F)	0.312	0.270 *	4.0	2.0		2.0
Phosphates (PO4)	0.0640	<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	83.9 *	67.7 *				
Total Hardness	138	137				
Langelier Index		0.4090				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00467	0.00078	0.01		0.01	
Barium (Ba)	0.0528	0.0497	2		2	
Cadmium (Cd)	<0.000500	<0.000500	0.005		0.005	
Chromium (Cr)	<0.00125	<0.00125	0.1		0.1	
Copper (Cu)	0.00458	0.00211	1.3		1.3	1.0
Iron (Fe)	<10.0	0.190		0.3		
Lead (Pb)	0.000774	0.000733	0.15		0.15	
Manganese (Mn)	<0.0500	0.00654		0.05		0.05
Mercury (Hg)	<0.0000500	<0.0000500	0.002		0.002	
Nickel (Ni)	0.00281	0.00479				
Selenium (Se)	0.000776	<0.000500	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00159	0.00257		5		5

Other Analysis

Chlorine Residual (mg/L)	--	3.44 *	4.0		4.0	
Total coliform (Present / Absent)	--	A *	A		A	
pH (Standard Units) @ 25°C	8.14 *	8.16 *		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	645 *	695 *				
Turbidity (NTU)	12.0 *	0.0659 *	0.3		0.3	
Threshold Odor Number	24F	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.