

North Texas Municipal Water District  
 Water Analysis  
 Jan-2015

Mineral Analysis	Raw (mg/L)	Treated (mg/L)	Standards			
			EPA Primary (mg/L)	EPA Secondary (mg/L)	TCEQ Primary (mg/L)	TCEQ Secondary (mg/L)
Residue on Evaporation	490	542		500		1000
Silica (SiO2)	3.22	2.87				
Iron (Fe)	0.809	0.336		0.3		0.3
Calcium (Ca)	54.9	65.9				
Magnesium (Mg)	11.5	11.3				
Sodium (Na)	91.5	110				
Potassium (K)	7.63	7.59				
Bicarbonates (HCO3)	0	0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	107	173		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	115	134		250		300
Fluoride (F)	0.404	0.450	4.0	2.0		2.0
Phosphates (PO4)	0.0166	0.0820				

	(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	110	88.4				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	70.8	94.6				
Total Hardness	181	183				
Langelier Index	-	[- 0.155 ]				

**Trace Element Analysis**

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00882	0.00744	0.01		0.01	
Barium (Ba)	0.0731	0.0623	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.205	0.00311	1.3		1.3	1.0
Iron (Fe)	0.809	0.336		0.3		
Lead (Pb)	0.000975	<0.000250	0.15		0.15	
Manganese (Mn)	0.0275	0.00437		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00586	0.00651				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0508	0.00838		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	4.17*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.24*	8.08*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	804	915				
Turbidity (NTU)	11.9	0.110*	0.3		0.3	
Threshold Odor Number	100F	1CL				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-2015**

<b>Mineral Analysis</b>	<b>Raw</b>	<b>Treated</b>	<b>Standards</b>			
			<b>EPA Primary (mg/L)</b>	<b>EPA Secondary (mg/L)</b>	<b>TCEQ Primary (mg/L)</b>	<b>TCEQ Secondary (mg/L)</b>
Residue on Evaporation	462	520		500		1000
Silica (SiO2)	3.08	2.69				
Iron (Fe)	0.421	0.259		0.3		0.3
Calcium (Ca)	49.4	52.5				
Magnesium (Mg)	10.7	10.8				
Sodium (Na)	92.7	113				
Potassium (K)	7.13	7.36				
Bicarbonates (HCO3)	0	0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	106	152		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	107	123		250		300
Fluoride (F)	0.412	0.443	4.0	2.0		2.0
Phosphates (PO4)	0.0559	0.0790				

	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>
Total Alkalinity	111	89.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	71.9	96.2				
Total Hardness	183	185				
Langelier Index	-	[- 0.125 ]				

**Trace Element Analysis**

	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>
Arsenic (As)	0.0105	0.00953	0.01		0.01	
Barium (Ba)	0.0682	0.0614	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0394	0.00294	1.3		1.3	1.0
Iron (Fe)	0.421	0.259		0.3		
Lead (Pb)	0.000343	<0.000250	0.15		0.15	
Manganese (Mn)	0.0279	0.00248		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00453	0.00602				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0106	0.00595		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	8.25*	7.87*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	768	853				
Turbidity (NTU)	18.9	0.0900*	0.3		0.3	
Threshold Odor Number	70F	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  
Mar-2015**

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	506	538		500		1000
Silica (SiO2)	4.72	3.72				
Iron (Fe)	0.829	0.383		0.3		0.3
Calcium (Ca)	54.9	67.8				
Magnesium (Mg)	11.1	10.7				
Sodium (Na)	86.1	102				
Potassium (K)	6.66	6.83				
Sulfate (SO4)	103	142		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	103	104		250		300
Fluoride (F)	0.383	0.428	4.0	2.0		2.0
Phosphates (PO4)	0.0894	0.0185				

	(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	114	98.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	80.0	94.0				
Total Hardness	194	192				
Langelier Index	-	[- 0.183]				

**Trace Element Analysis**

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00158	<0.00500	0.01		0.01	
Barium (Ba)	0.0764	0.0646	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0288	0.00589	1.3		1.3	1.0
Iron (Fe)	0.829	0.383		0.3		
Lead (Pb)	0.000577	<0.000250	0.15		0.15	
Manganese (Mn)	0.0171	0.00338		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00460	0.00641				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0185	0.0211		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.80*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.19*	7.94*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	838	918				
Turbidity (NTU)	26.0	0.110*	0.3		0.3	
Threshold Odor Number	8F	2CL				3

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**Note 3: \* Identifies Monthly Average Process analyses.**

**North Texas Municipal Water District  
Water Analysis  
Apr-2015**

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	528	532		500		1000
Silica (SiO2)	3.04	3.44				
Iron (Fe)	0.547	<0.200		0.3		0.3
Calcium (Ca)	68.5	74.4				
Magnesium (Mg)	13.6	11.8				
Sodium (Na)	105	105				
Potassium (K)	7.62	7.70				
Sulfate (SO4)	108	141		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	118	108		250		300
Fluoride (F)	0.380	0.498	4.0	2.0		2.0
Phosphates (PO4)	0.0690	0.0250				

	(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	109				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	78.6	90.4				
Total Hardness	209	200				
Langelier Index	-	[- 0.303 ]				

**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)	0.0780	0.0651	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0128	0.00584	1.3		1.3	1.0
Iron (Fe)	0.547	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0187	0.00540		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00498	0.00651				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00842	<0.00500		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.68*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.32*	7.59*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	862	893				
Turbidity (NTU)	12.0	0.100*	0.3		0.3	
Threshold Odor Number	8F	4CL				3

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**Note 3: \* Identifies Monthly Average Process analyses.**



**North Texas Municipal Water District  
Water Analysis  
May-2015**

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	448	492		500		1000
Silica (SiO2)	5.61	4.56				
Iron (Fe)	0.204	<0.200		0.3		0.3
Calcium (Ca)	66.9	64.5				
Magnesium (Mg)	9.97	9.73				
Sodium (Na)	70.3	84.9				
Potassium (K)	5.93	6.11				
Sulfate (SO4)	89.2	127		250		
Nitrite (NO2)	0.0450	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	88.1	97.3		250		300
Fluoride (F)	0.306	0.505	4.0	2.0		2.0
Phosphates (PO4)	0.0630	0.0200				

	(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	131	108				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	66.0	93.9				
Total Hardness	197	202				
Langelier Index	-	[+ 0.135 ]				

**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)	0.0683	0.0626	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0222	0.00445	1.3		1.3	1.0
Iron (Fe)	0.204	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0196	0.00359		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00430	0.00569				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00775	0.0120		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.63*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.23*	7.97*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	779	859				
Turbidity (NTU)	39.8	0.100*	0.3		0.3	
Threshold Odor Number	6F	ND				3

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**Note 3: \* Identifies Monthly Average Process analyses.**

North Texas Municipal Water District  
 Water Analysis  
 Jun-2015

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	334	354		500		1000
Silica (SiO2)	8.34	8.16				
Iron (Fe)	0.485	0.199		0.3		0.3
Calcium (Ca)	54.5	56.3				
Magnesium (Mg)	6.60	5.85				
Sodium (Na)	41.7	51.4				
Potassium (K)	4.84	4.86				
Sulfate (SO4)	52.3	51.5		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	67.2	60.0		250		300
Fluoride (F)	<0.250	0.229	4.0	2.0		2.0
Phosphates (PO4)	0.124	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	124	108				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	43.0	49.3				
Total Hardness	167	158				
Langelier Index	-	[+ 0.00422 ]				

Trace Element Analysis

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00344	0.0114	0.01		0.01	
Barium (Ba)	0.0629	0.0506	2		2	
Cadmium (Cd)	<0.000250	<0.00100	0.005		0.005	
Chromium (Cr)	0.000524	<0.00500	0.1		0.1	
Copper (Cu)	0.0307	0.00409	1.3		1.3	1.0
Iron (Fe)	0.485	0.199		0.3		
Lead (Pb)	0.000355	<0.000250	0.15		0.15	
Manganese (Mn)	0.0617	0.00365		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00272	0.00445				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00939	0.00359		5		5

Other Analysis

Chlorine Residual (mg/L)	-	4.04*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	7.76*	7.83*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	547	597				
Turbidity (NTU)	13.0	0.0900*	0.3		0.3	
Threshold Odor Number	6F	2CL				3

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**Note 3: \* Identifies Monthly Average Process analyses.**

**North Texas Municipal Water District  
Water Analysis  
Jul-2015**

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	338	330		500		1000
Silica (SiO2)	7.45	6.92				
Iron (Fe)	0.465	0.161		0.3		0.3
Calcium (Ca)	56.0	57.8				
Magnesium (Mg)	5.89	5.20				
Sodium (Na)	33.7	51.3				
Potassium (K)	6.12	6.04				
Sulfate (SO4)	51.2	78.8		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	65.2	46.2		250		300
Fluoride (F)	<0.250	0.0467	4.0	2.0		2.0
Phosphates (PO4)	0.0790	0.0190				

	(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	113	104				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	36.1	45.1				
Total Hardness	149	149				
Langelier Index	-	[+ 0.181 ]				

**Trace Element Analysis**

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00668	<0.00500	0.01		0.01	
Barium (Ba)	0.0665	0.0527	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00522	0.00473	1.3		1.3	1.0
Iron (Fe)	0.465	0.161		0.3		
Lead (Pb)	0.000362	<0.000250	0.15		0.15	
Manganese (Mn)	0.0455	0.00335		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00326	0.00412				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00631	<0.00250		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	4.08*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.27*	8.12*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	565	552				
Turbidity (NTU)	9.19	0.0900*	0.3		0.3	
Threshold Odor Number	6E	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  
Water Analysis  
Aug-2015**

<b>Mineral Analysis</b>	<b>Raw</b>	<b>Treated</b>	<b>Standards</b>			
			<b>EPA Primary</b>	<b>EPA Secondary</b>	<b>TCEQ Primary</b>	<b>TCEQ Secondary</b>
	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>
Residue on Evaporation	248	298		500		1000
Silica (SiO2)	8.39	7.07				
Iron (Fe)	0.216	<0.200		0.3		0.3
Calcium (Ca)	47.9	52.5				
Magnesium (Mg)	4.18	5.16				
Sodium (Na)	38.3	71.9				
Potassium (K)	5.69	7.23				
Sulfate (SO4)	32.7	72.5		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	31.5	41.1		250		300
Fluoride (F)	<0.250	0.189	4.0	2.0		2.0
Phosphates (PO4)	0.0610	0.0220				

	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>
Total Alkalinity	108	92.4				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	29.3	45.4				
Total Hardness	137	138				
Langelier Index	-	[+ 0.813 ]				

**Trace Element Analysis**

	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>
Arsenic (As)	<0.00500	<0.00500	0.01		0.01	
Barium (Ba)	0.0501	0.0442	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0194	0.00489	1.3		1.3	1.0
Iron (Fe)	0.216	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0510	0.00272		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00384	0.00362				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.0115	<0.00500		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	4.29*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.26*	8.46*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	370	457				
Turbidity (NTU)	12.6	0.100*	0.3		0.3	
Threshold Odor Number	4F	2G				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  
Sep-2015**

Mineral Analysis	Raw	Treated	Standards			
			EPA	EPA	TCEQ	TCEQ
			Primary	Secondary	Primary	Secondary
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Residue on Evaporation	240	288		500		1000
Silica (SiO2)	7.90	7.16				
Iron (Fe)	0.259	<0.200		0.3		0.3
Calcium (Ca)	47.4	49.6				
Magnesium (Mg)	5.36	5.26				
Sodium (Na)	35.9	53.3				
Potassium (K)	6.75	6.71				
Sulfate (SO4)	36.5	77.3		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	39.5	48.8		250		300
Fluoride (F)	<0.250	0.207	4.0	2.0		2.0
Phosphates (PO4)	0.0770	0.0170				
	(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	108	91.2				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	22.4	45.0				
Total Hardness	130	136				
Langelier Index	-	[+ 0.187 ]				
<b>Trace Element Analysis</b>						
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00615	<0.00500	0.01		0.01	
Barium (Ba)	0.0621	0.0486	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0147	0.00595	1.3		1.3	1.0
Iron (Fe)	0.259	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.106	0.0185		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00425	0.00495				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00698	<0.00500		5		5
<b>Other Analysis</b>						
Chlorine Residual (mg/L)	-	3.85*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	7.94*	7.96*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	414	504				
Turbidity (NTU)	7.80	0.100*	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  
Oct-2015**

Generated: 11/24/2015

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	262	332		500		1000
Silica (SiO2)	7.15	8.63				
Iron (Fe)	0.219	<0.200		0.3		0.3
Calcium (Ca)	43.4	51.6				
Magnesium (Mg)	6.57	6.69				
Sodium (Na)	41.6	63.1				
Potassium (K)	6.98	7.11				
Sulfate (SO4)	44.5	102		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0	0	10		10	
Chloride (Cl)	50.8	58.3		250		300
Fluoride (F)	<0.250	0.297	4.0	2.0		2.0
Phosphates (PO4)	0.0610	1.82				

	(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	97.9	65.3				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	30.5	63.5				
Total Hardness	128	129				
Langelier Index	-	[- 0.137 ]				

**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)	0.0585	0.0505	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0116	0.00299	1.3		1.3	1.0
Iron (Fe)	0.219	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0384	0.00538		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00437	0.00621				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00552	<0.00500		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.97*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.33*	7.81*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	439	549				
Turbidity (NTU)	8.55	0.0900*	0.3		0.3	
Threshold Odor Number	50F	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  
Jan-2015**

Regenerated: 12/11/2015

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	490	542		500		1000
Silica (SiO2)	3.22	2.87				
Iron (Fe)	0.809	0.336		0.3		0.3
Calcium (Ca)	54.9	65.9				
Magnesium (Mg)	11.5	11.3				
Sodium (Na)	91.5	110				
Potassium (K)	7.63	7.59				
Sulfate (SO4)	107	173		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.820	0.893	10		10	
Chloride (Cl)	115	134		250		300
Fluoride (F)	0.404	0.450	4.0	2.0		2.0
Phosphates (PO4)	0.0166	0.0820				

	(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	110	88.4				
Total Hardness	181	183				
Langelier Index	-	[- 0.155 ]				

**Trace Element Analysis**

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00882	0.00744	0.01		0.01	
Barium (Ba)	0.0731	0.0623	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.205	0.00311	1.3		1.3	1.0
Iron (Fe)	0.809	0.336		0.3		
Lead (Pb)	0.000975	<0.000250	0.15		0.15	
Manganese (Mn)	0.0275	0.00437		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00586	0.00651				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0508	0.00838		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	4.17*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.24*	8.08*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	804	915				
Turbidity (NTU)	11.9	0.110*	0.3		0.3	
Threshold Odor Number	100F	1CL				3

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**Note 3: \* Identifies Monthly Average Process analyses.**

**North Texas Municipal Water District  
Water Analysis  
Feb-2015**

Regenerated: 12/11/2015

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	462	520		500		1000
Silica (SiO2)	3.08	2.69				
Iron (Fe)	0.421	0.259		0.3		0.3
Calcium (Ca)	49.4	90.0				
Magnesium (Mg)	10.7	10.8				
Sodium (Na)	92.7	113				
Potassium (K)	7.13	7.36				
Sulfate (SO4)	106	152		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.821	0.923	10		10	
Chloride (Cl)	107	123		250		300
Fluoride (F)	0.412	0.443	4.0	2.0		2.0
Phosphates (PO4)	0.0559	0.0790				

	(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	111	89.0				
Total Hardness	183	185				
Langelier Index	-	[- 0.125 ]				

**Trace Element Analysis**

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.0105	0.00953	0.01		0.01	
Barium (Ba)	0.0682	0.0614	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0394	0.00294	1.3		1.3	1.0
Iron (Fe)	0.421	0.259		0.3		
Lead (Pb)	0.000343	<0.000250	0.15		0.15	
Manganese (Mn)	0.0279	0.00248		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00453	0.00602				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0106	0.00595		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	8.25*	7.87*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	768	853				
Turbidity (NTU)	18.9	0.0900*	0.3		0.3	
Threshold Odor Number	70F	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.**

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**Note 3: \* Identifies Monthly Average Process analyses.**



**North Texas Municipal Water District  
Water Analysis  
Mar-2015**

Regenerated: 12/11/2015

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	506	538		500		1000
Silica (SiO2)	4.72	3.72				
Iron (Fe)	0.829	0.383		0.3		0.3
Calcium (Ca)	54.9	67.8				
Magnesium (Mg)	11.1	10.7				
Sodium (Na)	86.1	102				
Potassium (K)	6.66	6.83				
Sulfate (SO4)	103	142		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	1.05	1.17	10		10	
Chloride (Cl)	103	104		250		300
Fluoride (F)	0.383	0.428	4.0	2.0		2.0
Phosphates (PO4)	0.0894	0.0185				

	(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	114	98.0				
Total Hardness	194	192				
Langelier Index	-	[- 0.183 ]				

**Trace Element Analysis**

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00158	<0.00500	0.01		0.01	
Barium (Ba)	0.0764	0.0646	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0288	0.00589	1.3		1.3	1.0
Iron (Fe)	0.829	0.383		0.3		
Lead (Pb)	0.000577	<0.000250	0.15		0.15	
Manganese (Mn)	0.0171	0.00338		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00460	0.00641				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.0185	0.0211		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.80*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.19*	7.94*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	838	918				
Turbidity (NTU)	26.0	0.110*	0.3		0.3	
Threshold Odor Number	8F	2CL				3

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**Note 3: \* Identifies Monthly Average Process analyses.**

**North Texas Municipal Water District  
Water Analysis  
Apr-2015**

Regenerated: 12/11/2015

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	528	532		500		1000
Silica (SiO2)	3.04	3.44				
Iron (Fe)	0.547	<0.200		0.3		0.3
Calcium (Ca)	68.5	74.4				
Magnesium (Mg)	13.6	11.8				
Sodium (Na)	105	105				
Potassium (K)	7.62	7.70				
Sulfate (SO4)	108	141		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.738	0.830	10		10	
Chloride (Cl)	118	108		250		300
Fluoride (F)	0.380	0.498	4.0	2.0		2.0
Phosphates (PO4)	0.0690	0.0250				

	(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	109				
Total Hardness	209	200				
Langelier Index	-	[- 0.303 ]				

**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)	0.0780	0.0651	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0128	0.00584	1.3		1.3	1.0
Iron (Fe)	0.547	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0187	0.00540		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00498	0.00651				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00842	<0.00500		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.68*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.32*	7.59*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	862	893				
Turbidity (NTU)	12.0	0.100*	0.3		0.3	
Threshold Odor Number	8F	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  
Water Analysis  
May-2015**

Regenerated: 12/11/2015

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	448	492		500		1000
Silica (SiO2)	5.61	4.56				
Iron (Fe)	0.204	<0.200		0.3		0.3
Calcium (Ca)	66.9	74.0				
Magnesium (Mg)	9.97	9.73				
Sodium (Na)	70.3	84.9				
Potassium (K)	5.93	6.11				
Sulfate (SO4)	89.2	127		250		
Nitrite (NO2)	0.0450	<0.0200	1		1	
Nitrate (NO3)	0.598	0.684	10		10	
Chloride (Cl)	88.1	97.3		250		300
Fluoride (F)	0.306	0.505	4.0	2.0		2.0
Phosphates (PO4)	0.0630	0.0200				

	(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	131	108				
Total Hardness	197	202				
Langelier Index	-	[+ 0.135 ]				

**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)	0.0683	0.0626	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0222	0.00445	1.3		1.3	1.0
Iron (Fe)	0.204	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0196	0.00359		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00430	0.00569				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00775	0.0120		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.63*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.23*	7.97*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	779	859				
Turbidity (NTU)	39.8	0.100*	0.3		0.3	
Threshold Odor Number	6F	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  
Jun-2015**

Regenerated: 12/11/2015

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	334	354		500		1000
Silica (SiO2)	8.34	8.16				
Iron (Fe)	0.485	0.199		0.3		0.3
Calcium (Ca)	54.5	60.5				
Magnesium (Mg)	6.60	5.85				
Sodium (Na)	41.7	51.4				
Potassium (K)	4.84	4.86				
Sulfate (SO4)	52.3	51.5		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.495	0.563	10		10	
Chloride (Cl)	67.2	60.0		250		300
Fluoride (F)	<0.250	0.229	4.0	2.0		2.0
Phosphates (PO4)	0.124	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	124	108				
Total Hardness	167	158				
Langelier Index	-	[+ 0.00422 ]				

**Trace Element Analysis**

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00344	0.0114	0.01		0.01	
Barium (Ba)	0.0629	0.0506	2		2	
Cadmium (Cd)	<0.000250	<0.00100	0.005		0.005	
Chromium (Cr)	0.000524	<0.00500	0.1		0.1	
Copper (Cu)	0.0307	0.00409	1.3		1.3	1.0
Iron (Fe)	0.485	0.199		0.3		
Lead (Pb)	0.000355	<0.000250	0.15		0.15	
Manganese (Mn)	0.0617	0.00365		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00272	0.00445				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00939	0.00359		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	4.04*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	7.76*	7.83*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	547	597				
Turbidity (NTU)	13.0	0.0900*	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  
Jul-2015**

Regenerated: 12/11/2015

<b>Mineral Analysis</b>	<b>Raw (mg/L)</b>	<b>Treated (mg/L)</b>	<b>Standards</b>			
			<b>EPA Primary (mg/L)</b>	<b>EPA Secondary (mg/L)</b>	<b>TCEQ Primary (mg/L)</b>	<b>TCEQ Secondary (mg/L)</b>
Residue on Evaporation	338	330		500		1000
Silica (SiO2)	7.45	6.92				
Iron (Fe)	0.465	0.161		0.3		0.3
Calcium (Ca)	56.0	57.8				
Magnesium (Mg)	5.89	5.20				
Sodium (Na)	33.7	51.3				
Potassium (K)	6.12	6.04				
Sulfate (SO4)	51.2	78.8		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.0796	0.145	10		10	
Chloride (Cl)	65.2	46.2		250		300
Fluoride (F)	<0.250	0.0467	4.0	2.0		2.0
Phosphates (PO4)	0.0790	0.0190				

	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>
Total Alkalinity	113	104				
Total Hardness	149	149				
Langelier Index	-	[+ 0.181 ]				

**Trace Element Analysis**

	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>
Arsenic (As)	0.00668	<0.00500	0.01		0.01	
Barium (Ba)	0.0665	0.0527	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00522	0.00473	1.3		1.3	1.0
Iron (Fe)	0.465	0.161		0.3		
Lead (Pb)	0.000362	<0.000250	0.15		0.15	
Manganese (Mn)	0.0455	0.00335		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00326	0.00412				
Selenium (Se)	<0.00250	<0.00250	0.05		0.05	
Silver (Ag)	<0.000250	<0.000250		0.10		0.1
Zinc (Zn)	0.00631	<0.00250		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	4.08*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.27*	8.12*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	565	552				
Turbidity (NTU)	9.19	0.0900*	0.3		0.3	
Threshold Odor Number	6E	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  
Water Analysis  
Aug-2015**

Regenerated: 12/11/2015

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	248	298		500		1000
Silica (SiO2)	8.39	7.07				
Iron (Fe)	0.216	<0.200		0.3		0.3
Calcium (Ca)	47.9	52.5				
Magnesium (Mg)	4.18	5.16				
Sodium (Na)	38.3	71.9				
Potassium (K)	5.69	7.23				
Sulfate (SO4)	32.7	72.5		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0500	0.0759	10		10	
Chloride (Cl)	31.5	41.1		250		300
Fluoride (F)	<0.250	0.189	4.0	2.0		2.0
Phosphates (PO4)	0.0610	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	108	92.4				
Total Hardness	137	138				
Langelier Index	-	[+ 0.813 ]				

**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)	0.0501	0.0442	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0194	0.00489	1.3		1.3	1.0
Iron (Fe)	0.216	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0510	0.00272		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00384	0.00362				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.0115	<0.00500		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	4.29*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.26*	8.46*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	370	457				
Turbidity (NTU)	12.6	0.100*	0.3		0.3	
Threshold Odor Number	4F	2G				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  
Sep-2015**

Regenerated: 12/11/2015

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	240	288		500		1000
Silica (SiO2)	7.90	7.16				
Iron (Fe)	0.259	<0.200		0.3		0.3
Calcium (Ca)	47.4	49.6				
Magnesium (Mg)	5.36	5.26				
Sodium (Na)	35.9	53.3				
Potassium (K)	6.75	6.71				
Sulfate (SO4)	36.5	77.3		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0500	0.0981	10		10	
Chloride (Cl)	39.5	48.8		250		300
Fluoride (F)	<0.250	0.207	4.0	2.0		2.0
Phosphates (PO4)	0.0770	0.0170				

	(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	108	91.2				
Total Hardness	130	136				
Langelier Index	-	[+ 0.187 ]				

**Trace Element Analysis**

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00615	<0.00500	0.01		0.01	
Barium (Ba)	0.0621	0.0486	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0147	0.00595	1.3		1.3	1.0
Iron (Fe)	0.259	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.106	0.0185		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00425	0.00495				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00698	<0.00500		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	7.94*	7.96*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	414	504				
Turbidity (NTU)	7.80	0.100*	0.3		0.3	
Threshold Odor Number	17F	1.4CL				3

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**Note 3: \* Identifies Monthly Average Process analyses.**

**North Texas Municipal Water District  
Water Analysis  
Oct-2015**

Regenerated: 12/11/2015

<b>Mineral Analysis</b>	<b>Raw (mg/L)</b>	<b>Treated (mg/L)</b>	<b>Standards</b>			
			<b>EPA Primary (mg/L)</b>	<b>EPA Secondary (mg/L)</b>	<b>TCEQ Primary (mg/L)</b>	<b>TCEQ Secondary (mg/L)</b>
Residue on Evaporation	262	332		500		1000
Silica (SiO2)	7.15	8.63				
Iron (Fe)	0.219	<0.200		0.3		0.3
Calcium (Ca)	43.4	51.6				
Magnesium (Mg)	6.57	6.69				
Sodium (Na)	41.6	63.1				
Potassium (K)	6.98	7.11				
Sulfate (SO4)	44.5	102		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.0548	0.145	10		10	
Chloride (Cl)	50.8	58.3		250		300
Fluoride (F)	<0.250	0.297	4.0	2.0		2.0
Phosphates (PO4)	0.0610	1.82				

	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>	<b>(mg/L as CaCO3)</b>
Total Alkalinity	97.9	65.3				
Total Hardness	128	129				
Langelier Index	-	[- 0.137 ]				

**Trace Element Analysis**

	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>	<b>(mg/L)</b>
Arsenic (As)	<0.00500	<0.00500	0.01		0.01	
Barium (Ba)	0.0585	0.0505	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0116	0.00299	1.3		1.3	1.0
Iron (Fe)	0.219	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0384	0.00538		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00437	0.00621				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00552	<0.00500		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.97*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.33*	7.81*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	439	549				
Turbidity (NTU)	8.55	0.0900*	0.3		0.3	
Threshold Odor Number	50F	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  
Nov-2015**

Generated: 12/11/2015

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	294	350		500		1000
Silica (SiO2)	7.59	7.09				
Iron (Fe)	0.257	<0.200		0.3		0.3
Calcium (Ca)	67.1	48.4				
Magnesium (Mg)	7.88	6.92				
Sodium (Na)	62.1	75.8				
Potassium (K)	7.15	7.00				
Sulfate (SO4)	56.4	104		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.363	0.413	10		10	
Chloride (Cl)	61.0	53.1		250		300
Fluoride (F)	<0.250	0.225	4.0	2.0		2.0
Phosphates (PO4)	0.0580	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	107	81.0				
Total Hardness	152	150				
Langelier Index	-	[+ 0.0542 ]				

**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)	0.0666	0.0489	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00874	0.00422	1.3		1.3	1.0
Iron (Fe)	0.257	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0314	0.00984		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00531	0.00682				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00645	<0.00500		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	4.48*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.20*	8.03*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	542	623				
Turbidity (NTU)	10.1	0.0800*	0.3		0.3	
Threshold Odor Number	35F	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  
Water Analysis  
Dec-2015**

Generated: 01/00/1900

<u>Mineral Analysis</u>	<u>Raw</u> (mg/L)	<u>Treated</u> (mg/L)	<u>Standards</u>			
			<u>EPA</u> <u>Primary</u> (mg/L)	<u>EPA</u> <u>Secondary</u> (mg/L)	<u>TCEQ</u> <u>Primary</u> (mg/L)	<u>TCEQ</u> <u>Secondary</u> (mg/L)
Residue on Evaporation	338	294		500		1000
Silica (SiO2)	7.86	7.71				
Iron (Fe)	0.478	<0.200		0.3		0.3
Calcium (Ca)	63.7	47.2				
Magnesium (Mg)	7.32	3.47				
Sodium (Na)	49.3	44.2				
Potassium (K)	5.64	5.24				
Sulfate (SO4)	48.6	81.3		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.554	0.690	10		10	
Chloride (Cl)	54.4	27.7		250		300
Fluoride (F)	<0.250	0.227	4.0	2.0		2.0
Phosphates (PO4)	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	104	84.1				
Total Hardness	147	116				
Langelier Index	-	[+ 0.221 ]				

**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)	0.0581	0.0421	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0220	0.00544	1.3		1.3	1.0
Iron (Fe)	0.478	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0185	0.00552		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00586	0.00604				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.0120	<0.00500		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.69*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.16*	8.31*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	483	444				
Turbidity (NTU)	11.5	0.0800*	0.3		0.3	
Threshold Odor Number	50F	1.4CL				3

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**Note 3: \* Identifies Monthly Average Process analyses.**