

**North Texas Municipal Water District  
Water Analysis  
Jan-2011**

<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	178	208		500		1000
Silica (SiO <sub>2</sub> )	3.96	3.83				
Iron (Fe)	0.577	<0.200		0.3		0.3
Calcium (Ca)	54.6	46.7				
Magnesium (Mg)	4.18	3.62				
Sodium (Na)	24.5	24.2				
Potassium (K)	4.22	3.73				
Bicarbonates (HCO <sub>3</sub> )	102	92.0				
Carbonates (CO <sub>3</sub> )	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO <sub>4</sub> )	43.9	63.2		250		
Nitrite (NO <sub>2</sub> )	<0.0200	<0.0200	1		1	
Nitrate (NO <sub>3</sub> )	0.469	0.380	10		10	
Chloride (Cl)	35.2	31.6		250		300
Fluoride (F)	0.634	0.694	4.0	2.0		2.0
Phosphates (PO <sub>4</sub> )	0.0322	0.0114				

	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>
Total Alkalinity	102	92.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	38.0	36.0				
Total Hardness	140	128				
Langelier Index	-	[- 0.774 ]				

**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)	0.0410	0.0379	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00723	0.149	1.3		1.3	1.0
Iron (Fe)	0.577	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0136	<0.00100		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00448	0.00471				
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)	-	3.09*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.10*	7.38*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	424	404				
Turbidity (NTU)	12.9	0.0660*	0.3		0.3	
Threshold Odor Number	2E	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-2011**

<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	270	306		500		1000
Silica (SiO2)	4.96	3.84				
Iron (Fe)	<2.00	<0.200		0.3		0.3
Calcium (Ca)	51.8	53.9				
Magnesium (Mg)	4.29	4.29				
Sodium (Na)	24.5	30.8				
Potassium (K)	4.44	4.35				
Bicarbonates (HCO3)	111	93.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	42.9	68.2		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.457	0.539	10		10	
Chloride (Cl)	26.0	33.5		250		300
Fluoride (F)	0.324	0.603	4.0	2.0		2.0
Phosphates (PO4)	0.124	0.0236				

	<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	93.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	0	0				
Total Hardness	158	154				
Langelier Index	-	[- 0.429 ]				

**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)	0.0601	0.0406	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0454	0.0804	1.3		1.3	1.0
Iron (Fe)	<2.00	<0.200		0.3		
Lead (Pb)	0.00492	<0.00100	0.15		0.15	
Manganese (Mn)	0.112	<0.00100		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00544	0.00443				
Selenium (Se)	<0.00100	0.00109	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.0309	<0.00500		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.19*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	7.83*	7.56*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	386	444				
Turbidity (NTU)	12.7	0.0653*	0.3		0.3	
Threshold Odor Number	8F	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  
Mar-2011**

<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	272	290		500		1000
Silica (SiO <sub>2</sub> )	<2.00	<2.00				
Iron (Fe)	0.402	<0.200		0.3		0.3
Calcium (Ca)	45.9	48.3				
Magnesium (Mg)	4.47	4.39				
Sodium (Na)	23.7	27.2				
Potassium (K)	4.87	4.62				
Bicarbonates (HCO <sub>3</sub> )	111	94.0				
Carbonates (CO <sub>3</sub> )	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO <sub>4</sub> )	44.0	73.5		250		
Nitrite (NO <sub>2</sub> )	<0.0200	<0.0200	1		1	
Nitrate (NO <sub>3</sub> )	0.514	0.533	10		10	
Chloride (Cl)	27.2	32.2		250		300
Fluoride (F)	0.326	0.556	4.0	2.0		2.0
Phosphates (PO <sub>4</sub> )	0.0498	0.0178				

	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>
Total Alkalinity	111	94.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	37.0	86.0				
Total Hardness	148	180				
Langelier Index	-	[- 0.384 ]				

**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)	0.0508	0.0432	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00646	0.110	1.3		1.3	1.0
Iron (Fe)	0.402	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0190	<0.00100		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00457	0.00542				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00537	0.00933		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.20*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.43*	7.58*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	370	426				
Turbidity (NTU)	17.1	0.107*	0.3		0.3	
Threshold Odor Number	17E	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  
Apr-2011**

<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	332	348		500		1000
Silica (SiO2)	2.15	<2.00				
Iron (Fe)	0.537	<0.200		0.3		0.3
Calcium (Ca)	54.7	57.7				
Magnesium (Mg)	4.51	4.72				
Sodium (Na)	26.7	32.3				
Potassium (K)	5.46	5.23				
Bicarbonates (HCO3)	127	113				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	43.0	64.8		250		
Nitrite (NO2)	0.0276	<0.0200	1		1	
Nitrate (NO3)	0.524	0.524	10		10	
Chloride (Cl)	30.0	35.0		250		300
Fluoride (F)	0.334	0.540	4.0	2.0		2.0
Phosphates (PO4)	0.0476	<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	127	113				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	55.0	71.0				
Total Hardness	182	184				
Langelier Index	-	[- 0.0548 ]				

**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)	0.0527	0.0481	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00579	0.109	1.3		1.3	1.0
Iron (Fe)	0.537	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0206	<0.00100		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00443	0.00570				
Selenium (Se)	<0.00100	0.00101	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)	-	3.05*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.24*	7.77*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	430	486				
Turbidity (NTU)	18.8	0.103*	0.3		0.3	
Threshold Odor Number	17F	1ND				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-2011**

<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	256	286		500		1000
Silica (SiO2)	<2.00	<2.00				
Iron (Fe)	<0.200	<0.200		0.3		0.3
Calcium (Ca)	54.2	58.9				
Magnesium (Mg)	4.26	4.31				
Sodium (Na)	25.0	28.8				
Potassium (K)	4.71	4.90				
Bicarbonates (HCO3)	117	101				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	43.9	64.9		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.631	0.593	10		10	
Chloride (Cl)	27.1	34.0		250		300
Fluoride (F)	0.337	0.612	4.0	2.0		2.0
Phosphates (PO4)	0.0378	0.0258				

	<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	117	101				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	23.0	42.0				
Total Hardness	140	143				
Langelier Index	-	[- 0.233 ]				

**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)	0.0536	0.0468	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00685	0.169	1.3		1.3	1.0
Iron (Fe)	<0.200	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0151	<0.00100		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00375	0.00472				
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)	-	3.11*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.24*	7.31*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	420	465				
Turbidity (NTU)	18.7	0.112*	0.3		0.3	
Threshold Odor Number	4F	2E				3

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

**North Texas Municipal Water District  
Water Analysis  
Jun-2011**

<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	230	274		500		1000
Silica (SiO2)	2.70	2.56				
Iron (Fe)	<0.200	<0.200		0.3		0.3
Calcium (Ca)	45.6	50.5				
Magnesium (Mg)	4.07	4.17				
Sodium (Na)	24.9	31.9				
Potassium (K)	4.43	4.55				
Bicarbonates (HCO3)	112	106				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	40.6	63.0		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.406	0.221	10		10	
Chloride (Cl)	25.0	31.2		250		300
Fluoride (F)	0.337	0.594	4.0	2.0		2.0
Phosphates (PO4)	0.0291	<0.0200				

	<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	112	106				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	0	54.0				
Total Hardness	64.0	160				
Langelier Index	-	[- 0.0740 ]				

**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)	0.0446	0.0396	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0119	0.0937	1.3		1.3	1.0
Iron (Fe)	<0.200	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.00918	<0.00100		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00392	0.00476				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00530	<0.00500		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.10*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	7.65*	7.54*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	0.380	0.447				
Turbidity (NTU)	17.4	0.118*	0.3		0.3	
Threshold Odor Number	8F	1ND				3

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

**North Texas Municipal Water District  
Water Analysis  
Jul-2011**

<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	223	265		500		1000
Silica (SiO2)	3.90	3.00				
Iron (Fe)	<0.200	<0.200		0.3		0.3
Calcium (Ca)	36.7	40.6				
Magnesium (Mg)	3.79	3.88				
Sodium (Na)	25.1	28.6				
Potassium (K)	4.78	4.81				
Bicarbonates (HCO3)	97.0	82.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	38.9	65.0		250		
Nitrite (NO2)	0.0432	<0.0200	1		1	
Nitrate (NO3)	<0.0700	<0.0700	10		10	
Chloride (Cl)	24.7	31.3		250		300
Fluoride (F)	0.334	0.569	4.0	2.0		2.0
Phosphates (PO4)	0.0780	<0.0200				

	<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	97.0	82.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	23.0	44.0				
Total Hardness	120	126				
Langelier Index	-	[- 0.167 ]				

**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)	0.0458	0.0369	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0158	0.125	1.3		1.3	1.0
Iron (Fe)	<0.200	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0230	<0.00100		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00337	0.00433				
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)	-	3.09*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	7.73*	7.59*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	366	420				
Turbidity (NTU)	13.8	0.163*	0.3		0.3	
Threshold Odor Number	2F	1E				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-2011**

<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	204	244		500		1000
Silica (SiO2)	5.71	5.29				
Iron (Fe)	0.286	<0.200		0.3		0.3
Calcium (Ca)	33.4	38.6				
Magnesium (Mg)	4.10	4.12				
Sodium (Na)	29.8	34.5				
Potassium (K)	5.55	5.48				
Bicarbonates (HCO3)	84.0	82.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	43.4	74.8		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.176	<0.0700	10		10	
Chloride (Cl)	30.1	36.2		250		300
Fluoride (F)	0.243	0.627	4.0	2.0		2.0
Phosphates (PO4)	0.0541	0.0162				

	<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	84.0	82.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	28.0	40.0				
Total Hardness	112	122				
Langelier Index	-	[- 0.212 ]				

**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)	0.00561	<0.0100	0.01		0.01	
Barium (Ba)	0.0468	0.0379	2		2	
Cadmium (Cd)	<0.00100	<0.00200	0.005		0.005	
Chromium (Cr)	<0.00500	<0.0100	0.1		0.1	
Copper (Cu)	0.0105	0.121	1.3		1.3	1.0
Iron (Fe)	0.286	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00200	0.15		0.15	
Manganese (Mn)	0.0350	0.00285		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00327	0.00428				
Selenium (Se)	<0.00100	<0.00200	0.05		0.05	
Silver (Ag)	<0.00100	<0.00200		0.10		0.1
Zinc (Zn)	0.00506	<0.0100		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.24*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	7.86*	7.55*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	344	418				
Turbidity (NTU)	13.6	0.183*	0.3		0.3	
Threshold Odor Number	35E	17E				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  
Sep-2011**

<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	218	250		500		1000
Silica (SiO2)	10.2	8.59				
Iron (Fe)	<0.200	<0.200		0.3		0.3
Calcium (Ca)	33.0	38.7				
Magnesium (Mg)	3.74	3.70				
Sodium (Na)	33.6	43.3				
Potassium (K)	5.89	5.69				
Bicarbonates (HCO3)	90.0	80.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	41.9	77.7		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	<0.0700	0.0849	10		10	
Chloride (Cl)	30.9	39.3		250		300
Fluoride (F)	0.522	0.699	4.0	2.0		2.0
Phosphates (PO4)	0.0943	0.0213				

	(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	90.0	80.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	2.00	32.0				
Total Hardness	92.0	112				
Langelier Index	-	[- 0.317 ]				

**Trace Element Analysis**

	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic (As)	0.00596	<0.00500	0.01		0.01	
Barium (Ba)	0.0637	0.0419	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00682	0.113	1.3		1.3	1.0
Iron (Fe)	<0.200	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.231	0.00300		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00352	0.00469				
Selenium (Se)	0.00125	<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)	-	3.38*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	7.79*	7.51*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	333	443				
Turbidity (NTU)	20.6	0.192*	0.3		0.3	
Threshold Odor Number	4E	2E				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  
Oct-2011**

<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	230	270		500		1000
Silica (SiO2)	8.59	7.50				
Iron (Fe)	0.248	<0.200		0.3		0.3
Calcium (Ca)	32.4	39.4				
Magnesium (Mg)	4.24	4.07				
Sodium (Na)	34.7	46.4				
Potassium (K)	6.05	5.85				
Bicarbonates (HCO3)	84.0	66.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	41.7	77.1		250		
Nitrite (NO2)	0.0872	<0.0200	1		1	
Nitrate (NO3)	0.316	0.216	10		10	
Chloride (Cl)	31.3	37.9		250		300
Fluoride (F)	0.368	0.732	4.0	2.0		2.0
Phosphates (PO4)	0.106	0.0131				

	<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	84.0	66.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	18.0	52.0				
Total Hardness	102	118				
Langelier Index	-	[- 0.476 ]				

**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)	0.0510	0.0390	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.00712	0.104	1.3		1.3	1.0
Iron (Fe)	0.248	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0348	0.00164		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00326	0.00498				
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)	-	3.35*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.03*	7.48*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	367	444				
Turbidity (NTU)	23.0	0.140*	0.3		0.3	
Threshold Odor Number	8F	4E				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-2011**

<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	240	290		500		1000
Silica (SiO <sub>2</sub> )	6.33	5.73				
Iron (Fe)	0.219	<0.200		0.3		0.3
Calcium (Ca)	39.0	44.5				
Magnesium (Mg)	4.11	4.04				
Sodium (Na)	36.9	44.6				
Potassium (K)	6.36	5.91				
Bicarbonates (HCO <sub>3</sub> )	93.0	90.0				
Carbonates (CO <sub>3</sub> )	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO <sub>4</sub> )	44.5	79.8		250		
Nitrite (NO <sub>2</sub> )	<0.0200	<0.0200	1		1	
Nitrate (NO <sub>3</sub> )	0.650	0.398	10		10	
Chloride (Cl)	33.7	39.8		250		300
Fluoride (F)	0.410	0.752	4.0	2.0		2.0
Phosphates (PO <sub>4</sub> )	0.0783	<0.0200				

	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>	<b>(mg/L as CaCO<sub>3</sub>)</b>
Total Alkalinity	93.0	90.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	15.0	30.0				
Total Hardness	108	120				
Langelier Index	-	[- 0.267 ]				

**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)	0.0541	0.0449	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0146	0.0646	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)	0.0305	0.00105		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00382	0.00534				
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)	-	3.32*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.16*	7.62*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	372	372				
Turbidity (NTU)	24.0	0.104*	0.3		0.3	
Threshold Odor Number	4E	2E				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  
Dec-2011**

<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	244	294		500		1000
Silica (SiO2)	3.80	3.57				
Iron (Fe)	0.546	<0.200		0.3		0.3
Calcium (Ca)	46.4	47.9				
Magnesium (Mg)	4.16	4.17				
Sodium (Na)	38.3	45.1				
Potassium (K)	5.46	5.54				
Bicarbonates (HCO3)	112	88.0				
Carbonates (CO3)	0	0				
Hydroxides (OH)	0	0				
Sulfate (SO4)	50.6	92.4		250		
Nitrite (NO2)	<0.0200	<0.0200	1		1	
Nitrate (NO3)	0.596	0.630	10		10	
Chloride (Cl)	34.4	43.5		250		300
Fluoride (F)	0.407	0.660	4.0	2.0		2.0
Phosphates (PO4)	0.101	0.0214				

	<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	112	88.0				
Phenolphthalein Alkalinity	0	0				
Noncarbonate Hardness	18.0	50.0				
Total Hardness	130	138				
Langelier Index	-	[- 0.454 ]				

**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)	0.0512	0.0381	2		2	
Cadmium (Cd)	<0.00100	<0.00100	0.005		0.005	
Chromium (Cr)	<0.00500	<0.00500	0.1		0.1	
Copper (Cu)	0.0115	0.102	1.3		1.3	1.0
Iron (Fe)	0.546	<0.200		0.3		
Lead (Pb)	<0.00100	<0.00100	0.15		0.15	
Manganese (Mn)	0.0520	<0.00100		0.05		0.05
Mercury (Hg)	<0.000100	<0.000100	0.002		0.002	
Nickel (Ni)	0.00448	0.00459				
Selenium (Se)	<0.00100	<0.00100	0.05		0.05	
Silver (Ag)	<0.00100	<0.00100		0.10		0.1
Zinc (Zn)	0.00785	<0.00500		5		5

**Other Analysis**

Chlorine Residual (mg/L)	-	3.20*	4.0		4.0	
Total coliform ( Present / Absent )	P	A	A		A	
pH (Standard Units) @ 25°C	8.31*	7.50*		6.5 - 8.5		>7.0
Specific Conductance (Umhos)	372	449				
Turbidity (NTU)	28.2	0.102*	0.3		0.3	
Threshold Odor Number	2F	4CL				3

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