

**North Texas Municipal Water District  
Water Analysis  
Aug-2009**

| <b>Mineral Analysis</b> | <b>Raw</b>    | <b>Treated</b> | <b>Standards</b>       |                          |                         |                           |
|-------------------------|---------------|----------------|------------------------|--------------------------|-------------------------|---------------------------|
|                         |               |                | <b>EPA<br/>Primary</b> | <b>EPA<br/>Secondary</b> | <b>TCEQ<br/>Primary</b> | <b>TCEQ<br/>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  | 278           | 308            |                        | 500                      |                         | 1000                      |
| Silica (SiO2)           | 8.28          | 7.58           |                        |                          |                         |                           |
| Iron (Fe)               | <0.200        | <0.200         |                        | 0.3                      |                         | 0.3                       |
| Calcium (Ca)            | 33.7          | 40.8           |                        |                          |                         |                           |
| Magnesium (Mg)          | 5.32          | 5.36           |                        |                          |                         |                           |
| Sodium (Na)             | 30.7          | 41.0           |                        |                          |                         |                           |
| Potassium (K)           | 4.79          | 4.77           |                        |                          |                         |                           |
| Bicarbonates (HCO3)     | 113           | 63.3           |                        |                          |                         |                           |
| Carbonates (CO3)        | 0             | 0              |                        |                          |                         |                           |
| Hydroxides (OH)         | 0             | 0              |                        |                          |                         |                           |
| Sulfate (SO4)           | 45.5          | 76.2           |                        | 250                      |                         |                           |
| Nitrite (NO2)           | 0.0610        | <0.0200        | 1                      |                          | 1                       |                           |
| Nitrate (NO3)           | 0.124         | 0.0875         | 10                     |                          | 10                      |                           |
| Chloride (Cl)           | 39.7          | 41.0           |                        | 250                      |                         | 300                       |
| Fluoride (F)            | 0.295         | 0.552          | 4.0                    | 2.0                      |                         | 2.0                       |
| Phosphates (PO4)        | 0.0470        | <0.0200        |                        |                          |                         |                           |

|                            | <b>(mg/L as<br/>CaCO3)</b> | <b>(mg/L as<br/>CaCO3)</b> | <b>(mg/L as<br/>CaCO3)</b> | <b>(mg/L as<br/>CaCO3)</b> | <b>(mg/L as<br/>CaCO3)</b> | <b>(mg/L as<br/>CaCO3)</b> |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Total Alkalinity           | 92.3                       | 51.8                       |                            |                            |                            |                            |
| Phenolphthalein Alkalinity | 0                          | 0                          |                            |                            |                            |                            |
| Noncarbonate Hardness      | 35.8                       | 95.5                       |                            |                            |                            |                            |
| Total Hardness             | 128                        | 147                        |                            |                            |                            |                            |
| Langelier Index            | -                          | [- 0.366 ]                 |                            |                            |                            |                            |

**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)   | 0.00508       | <0.00500      | 0.01          |               | 0.01          |               |
| Barium (Ba)    | 0.0536        | 0.0411        | 2             |               | 2             |               |
| Cadmium (Cd)   | <0.00100      | <0.00100      | 0.005         |               | 0.005         |               |
| Chromium (Cr)  | <0.00500      | <0.00500      | 0.1           |               | 0.1           |               |
| Copper (Cu)    | 0.00490       | 0.103         | 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) | 0.0275        | 0.00166       |               | 0.05          |               | 0.05          |
| Mercury (Hg)   | <0.000100     | <0.000100     | 0.002         |               | 0.002         |               |
| Nickel (Ni)    | 0.00269       | 0.00287       |               |               |               |               |
| Selenium (Se)  | <0.00100      | <0.00100      | 0.05          |               | 0.05          |               |
| Silver (Ag)    | <0.00100      | <0.00100      |               | 0.10          |               | 0.1           |
| Zinc (Zn)      | <0.0100       | <0.0100       |               | 5             |               | 5             |

**Other Analysis**

|                                     |       |        |     |           |     |      |
|-------------------------------------|-------|--------|-----|-----------|-----|------|
| Chlorine Residual (mg/L)            | -     | 3.42*  | 4.0 |           | 4.0 |      |
| Total coliform ( Present / Absent ) | P     | A      | A   |           | A   |      |
| pH (Standard Units) @ 25°C          | 7.39* | 7.30*  |     | 6.5 - 8.5 |     | >7.0 |
| Specific Conductance (Umhos)        | 432   | 526    |     |           |     |      |
| Turbidity (NTU)                     | 7.79  | 0.182* | 0.3 |           | 0.3 |      |
| Threshold Odor Number               | 8F    | 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 and Field analyses.**