

**North Texas Municipal Water District
Water Analysis
Mar-07**

Mineral Analysis

| | <u>Raw</u> (mg/L) | <u>Treated</u> (mg/L) | <u>Standards</u> (mg/L) |
|------------------------|----------------------|--------------------------|----------------------------|
| Residue on Evaporation | 510 | 568 | |
| Silica (SiO2) | 3.84 | 3.39 | |
| Iron (Fe) | 0.486 | <0.200 | 0.3 |
| Calcium (Ca) | 55 | 58.8 | |
| Magnesium (Mg) | 10.9 | 11.1 | |
| Sodium (Na) | 61.2 | 66.7 | |
| Potassium (K) | 4.83 | 4.81 | |
| Bicarbonates (HCO3) | 131 | 109 | |
| Carbonates (CO3) | 0 | 0 | |
| Hydroxides (OH) | 0 | 0 | |
| Sulfate (SO4) | 102 | 147 | 300 |
| Nitrite (NO2) | <0.0200 | <0.0200 | |
| Nitrate (NO3) | 1.17 | 0.932 | |
| Chloride (Cl) | 114 | 125 | 300 |
| Fluoride (F) | 0.334 | 0.643 | 2 |
| Phosphates (PO4) | <0.0500 | <0.0500 | |

| | (mg/L as CaCO3) | (mg/L as CaCO3) | (mg/L as CaCO3) |
|----------------------------|-----------------|-----------------|-----------------|
| Total Alkalinity | 107 | 88.8 | |
| Phenolphthalein Alkalinity | 0 | 0 | |
| Noncarbonate Hardness | 100 | 132 | |
| Total Hardness | 207 | 221 | |
| Langelier Index | | [+0.0674] | |

Trace Element Analysis

| | (mg/L) | (mg/L) | (mg/L) |
|----------------|-----------|-----------|--------|
| Arsenic (As) | 0.00115 | <0.00100 | 0.05 |
| Barium (Ba) | 0.0735 | 0.0666 | 1 |
| Cadmium (Cd) | <0.00100 | <0.00100 | 0.01 |
| Chromium (Cr) | <0.00100 | <0.00100 | 0.05 |
| Copper (Cu) | 0.0111 | 0.0308 | 1 |
| Iron (Fe) | 0.486 | <0.200 | 0.3 |
| Lead (Pb) | <0.00100 | <0.00100 | 0.05 |
| Manganese (Mn) | 0.0237 | 0.00147 | 0.05 |
| Mercury (Hg) | <0.000100 | <0.000100 | 0.002 |
| Nickel (Ni) | 0.00422 | 0.00367 | 0.1 |
| Selenium (Se) | <0.00100 | <0.00100 | |
| Silver (Ag) | <0.00100 | <0.00100 | 0.05 |
| Zinc (Zn) | 0.00501 | 0.00552 | 5 |

Other Analyses

| | | | |
|---------------------------------|-------|------|---------|
| Chlorine Residual (mg/L) | 0 | 2.81 | |
| Total Coliform (Present/Absent) | P8.21 | A | |
| pH (Standard Units) | 852 | 7.9 | 6.5-8.5 |

| | | | |
|------------------------------|------|-------|-----|
| Specific Conductance (Umhos) | 12.9 | 958 | |
| Turbidity (NTU) | 6E | 0.119 | 0.3 |
| Threshold Odor Number | | 1C | 3 |