

**North Texas Municipal Water District
Water Analysis
Sep-05**

Mineral Analysis

| | <u>Raw</u> (mg/L) | <u>Treated</u> (mg/L) | <u>Standards</u> (mg/L) |
|------------------------|----------------------|--------------------------|----------------------------|
| Residue on Evaporation | 292 | 344 | |
| Silica (SiO2) | 10.7 | 9.76 | |
| Iron (Fe) | 0.154 | <0.104 | 0.3 |
| Calcium (Ca) | 41.2 | 48.2 | |
| Magnesium (Mg) | 6.34 | 6.5 | |
| Sodium (Na) | 45.4 | 52.4 | |
| Potassium (K) | 5.06 | 5.09 | |
| Bicarbonates (HCO3) | 106.31 | 103.87 | |
| Carbonates (CO3) | 0 | 0 | |
| Hydroxides (OH) | 0 | 0 | |
| Sulfate (SO4) | 53.6 | 98.2 | 300 |
| Nitrite (NO2) | <0.02 | <0.02 | |
| Nitrate (NO3) | 0.241 | 0.046 | |
| Chloride (Cl) | 64.7 | 70.4 | 300 |
| Fluoride (F) | 0.35 | 0.57 | 2 |
| Phosphates (PO4) | 0.027 | 0.072 | |

(mg/L as CaCO3) (mg/L as CaCO3) (mg/L as CaCO3)

| | | | |
|----------------------------|-----|--------|--|
| Total Alkalinity | 87 | 85 | |
| Phenolphthalein Alkalinity | 0 | 0 | |
| Noncarbonate Hardness | 35 | 59 | |
| Total Hardness | 122 | 144 | |
| Langelier Index | | (+0.1) | |

Trace Element Analysis

| | (mg/L) | (mg/L) | (mg/L) |
|----------------|----------|----------|--------|
| Arsenic (As) | 0.00589 | <0.00194 | 0.05 |
| Barium (Ba) | 0.063 | 0.0452 | 1 |
| Cadmium (Cd) | <0.00013 | <0.00013 | 0.01 |
| Chromium (Cr) | 0.00265 | <0.00258 | 0.05 |
| Copper (Cu) | 0.00864 | 0.028 | 1 |
| Iron (Fe) | 0.154 | <0.104 | 0.3 |
| Lead (Pb) | <0.00021 | <0.00021 | 0.05 |
| Manganese (Mn) | 0.0263 | 0.000955 | 0.05 |
| Mercury (Hg) | <0.0001 | <0.0001 | 0.002 |
| Nickel (Ni) | 0.0037 | 0.00344 | 0.1 |
| Selenium (Se) | 0.00123 | 0.00106 | |
| Silver (Ag) | <0.00025 | <0.00025 | 0.05 |
| Zinc (Zn) | <0.00643 | <0.00643 | 5 |

Other Analyses

| | | | |
|---------------------------------|-----|------|---------|
| Chlorine Residual (mg/L) | | 3.12 | |
| Total Coliform (Present/Absent) | P | A | |
| pH (Standard Units) | 7.7 | 7.9 | 6.5-8.5 |

| | | | |
|------------------------------|-----|-----|-----|
| Specific Conductance (Umhos) | 501 | 584 | |
| Turbidity (NTU) | 7.6 | 0.2 | 0.3 |
| Threshold Odor Number | 17E | 2C | 3 |