

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

Mineral Analysis

| | Raw (mg/L) | Treated (mg/L) | Standards (mg/L) |
|----------------------------------|-----------------------|---------------------------|-----------------------------|
| Residue on Evaporation | 312 | 334 | |
| Silica (SiO ₂) | 8.94 | 6.69 | |
| Iron (Fe) | 0.198 | <0.104 | 0.3 |
| Calcium (Ca) | 43.4 | 50.9 | |
| Magnesium (Mg) | 6.22 | 6.37 | |
| Sodium (Na) | 50.5 | 51.9 | |
| Potassium (K) | 5.28 | 5.24 | |
| Bicarbonates (HCO ₃) | 108.76 | 105.09 | |
| Carbonates (CO ₃) | 0 | 0 | |
| Hydroxides (OH) | 0 | 0 | |
| Sulfate (SO ₄) | 70.1 | 98.5 | 300 |
| Nitrite (NO ₂) | <0.02 | <0.02 | |
| Nitrate (NO ₃) | 0.13 | 0.04 | |
| Chloride (Cl) | 71.5 | 76.9 | 300 |
| Fluoride (F) | 0.37 | 0.58 | 2 |
| Phosphates (PO ₄) | 0.0557 | <0.01 | |

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

| | | | |
|----------------------------|-----|--------|--|
| Total Alkalinity | 89 | 86 | |
| Phenolphthalein Alkalinity | 0 | 0 | |
| Noncarbonate Hardness | 46 | 71 | |
| Total Hardness | 135 | 157 | |
| Langelier Index | | (-0.2) | |

Trace Element Analysis

| | (mg/L) | (mg/L) | (mg/L) |
|----------------|---------------|---------------|---------------|
| Arsenic (As) | 0.00276 | <0.00194 | 0.05 |
| Barium (Ba) | 0.0558 | 0.0479 | 1 |
| Cadmium (Cd) | <0.00013 | <0.00013 | 0.01 |
| Chromium (Cr) | <0.00258 | <0.00258 | 0.05 |
| Copper (Cu) | 0.00512 | 0.0405 | 1 |
| Iron (Fe) | 0.198 | <0.104 | 0.3 |
| Lead (Pb) | 0.000218 | <0.00021 | 0.05 |
| Manganese (Mn) | 0.0269 | 0.000511 | 0.05 |
| Mercury (Hg) | <0.0001 | <0.0001 | 0.002 |
| Nickel (Ni) | 0.00371 | 0.0037 | 0.1 |
| Selenium (Se) | 0.00163 | 0.0013 | |
| Silver (Ag) | <0.00025 | <0.00025 | 0.05 |
| Zinc (Zn) | <0.00643 | <0.00643 | 5 |

Other Analyses

| | | | |
|---------------------------------|------|------|---------|
| Chlorine Residual (mg/L) | | 3.02 | |
| Total Coliform (Present/Absent) | P | A | |
| pH (Standard Units) | 8 | 8.1 | 6.5-8.5 |
| Specific Conductance (Umhos) | 552 | 617 | |
| Turbidity (NTU) | 13.2 | 0.14 | 0.3 |
| Threshold Odor Number | 17E | 1C | 3 |