

**NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham**
**Water Analysis**
**Nov-2022**

| <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>       |
|                               | (mg/L)                          | (mg/L)                          | (mg/L)                          | (mg/L)                          | (mg/L)                          | (mg/L)                          |
| Residue on Evaporation        | 122                             | 246                             |                                 | 500                             |                                 | 1000                            |
| Silica (SiO <sub>2</sub> )    | 5.47                            | 4.79                            |                                 |                                 |                                 |                                 |
| Iron (Fe)                     | 0.680                           | <0.200                          |                                 | 0.3                             |                                 | 0.3                             |
| Calcium (Ca)                  | 18.8                            | 58.6                            |                                 |                                 |                                 |                                 |
| Magnesium (Mg)                | 2.50                            | 2.67                            |                                 |                                 |                                 |                                 |
| Sodium (Na)                   | 29.8                            | 16.0                            |                                 |                                 |                                 |                                 |
| Potassium (K)                 | 4.67                            | 4.52                            |                                 |                                 |                                 |                                 |
| Sulfate (SO <sub>4</sub> )    | 2.10                            | 75.2                            |                                 | 250                             |                                 |                                 |
| Nitrite (NO <sub>2</sub> )    | <0.0200                         | <0.0200                         | 1                               |                                 | 1                               |                                 |
| Nitrate (NO <sub>3</sub> )    | 0.0930                          | 0.245                           | 10                              |                                 | 10                              |                                 |
| Chloride (Cl)                 | 7.95                            | 19.1                            |                                 | 250                             |                                 | 300                             |
| Fluoride (F)                  | 0.114                           | 0.474                           | 4.0                             | 2.0                             | 4                               | 2.0                             |
| Phosphates (PO <sub>4</sub> ) | 0.0980                          | <0.0100                         |                                 |                                 |                                 |                                 |
|                               | (mg/L as<br>CaCO <sub>3</sub> ) | (mg/L as<br>CaCO <sub>3</sub> ) | (mg/L as<br>CaCO <sub>3</sub> ) | (mg/L as<br>CaCO <sub>3</sub> ) | (mg/L as<br>CaCO <sub>3</sub> ) | (mg/L as<br>CaCO <sub>3</sub> ) |
| Total Alkalinity              | 74.6 *                          | 81.7 *                          |                                 |                                 |                                 |                                 |
| Total Hardness                | 48.0                            | 126                             |                                 |                                 |                                 |                                 |
| Langelier Index               | --                              | 0.076                           |                                 |                                 |                                 |                                 |

**Trace Element Analysis**

|                | (mg/L)    | (mg/L)    | (mg/L) | (mg/L) | (mg/L) | (mg/L) |
|----------------|-----------|-----------|--------|--------|--------|--------|
| Arsenic (As)   | 0.00401   | 0.00087   | 0.01   |        | 0.01   |        |
| Barium (Ba)    | 0.0629    | 0.0635    | 2      |        | 2      |        |
| Cadmium (Cd)   | <0.00100  | <0.00100  | 0.005  |        | 0.005  |        |
| Chromium (Cr)  | <0.00250  | <0.00250  | 0.1    |        | 0.1    |        |
| Copper (Cu)    | 0.135     | 0.00167   | 1.3    | 1      | 1.3    | 1.0    |
| Iron (Fe)      | 0.680     | <0.200    |        | 0.3    |        | 0.3    |
| Lead (Pb)      | <0.000500 | <0.000500 | 0.015  |        | 0.015  |        |
| Manganese (Mn) | 0.109     | <0.0250   |        | 0.05   |        | 0.05   |
| Mercury (Hg)   | <0.000100 | <0.000100 | 0.002  |        | 0.002  |        |
| Nickel (Ni)    | 0.00147   | 0.00488   |        |        |        |        |
| Selenium (Se)  | <0.00100  | <0.00100  | 0.05   |        | 0.05   |        |
| Silver (Ag)    | <0.00050  | <0.00050  |        | 0.10   |        | 0.1    |
| Zinc (Zn)      | 0.00310   | <0.00250  |        | 5      |        | 5      |

**Other Analysis**

|                                     |        |        |     |           |     |      |
|-------------------------------------|--------|--------|-----|-----------|-----|------|
| Chlorine Residual (mg/L)            | --     | 3.24   | 4.0 |           | 4.0 |      |
| Total coliform ( Present / Absent ) | --     | A      | A   |           | A   |      |
| pH (Standard Units) @ 25°C          | 7.80 * | 7.98 * |     | 6.5 - 8.5 |     | >7.0 |
| Specific Conductance (Umhos)        | 150    | 149    |     |           |     |      |
| Turbidity (NTU)                     | 13.8 * | 0.07 * | 0.3 |           | 0.3 |      |
| Threshold Odor Number               | <1.00  | <1.00  |     |           |     | 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. \*\* No odor analysis performed.**