

**NORTH TEXAS MUNICIPAL WATER DISTRICT - Bonham**
**Water Analysis**
**Oct-2021**

| <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        | 121           | 247            |                        | 500                      |                         | 1000                      |
| Silica (SiO <sub>2</sub> )    | 6.74          | 6.37           |                        |                          |                         |                           |
| Iron (Fe)                     | 0.313         | <0.200         |                        | 0.3                      |                         | 0.3                       |
| Calcium (Ca)                  | 18.6          | 48.4           |                        |                          |                         |                           |
| Magnesium (Mg)                | 2.54          | 2.92           |                        |                          |                         |                           |
| Sodium (Na)                   | 12.5          | 17.9           |                        |                          |                         |                           |
| Potassium (K)                 | 4.03          | 4.23           |                        |                          |                         |                           |
| Sulfate (SO <sub>4</sub> )    | 2.22          | 75.8           |                        | 250                      |                         |                           |
| Nitrite (NO <sub>2</sub> )    | <0.0200       | <0.0200        | 1                      |                          | 1                       |                           |
| Nitrate (NO <sub>3</sub> )    | <0.0500       | 0.174          | 10                     |                          | 10                      |                           |
| Chloride (Cl)                 | 6.94          | 20.1           |                        | 250                      |                         | 300                       |
| Fluoride (F)                  | 0.116         | 0.535          | 4.0                    | 2.0                      | 4                       | 2.0                       |
| Phosphates (PO <sub>4</sub> ) | 0.0990        | <0.0100        |                        |                          |                         |                           |

|                  | <b>(mg/L as<br/>CaCO<sub>3</sub>)</b> | <b>(mg/L as<br/>CaCO<sub>3</sub>)</b> | <b>(mg/L as<br/>CaCO<sub>3</sub>)</b> | <b>(mg/L as<br/>CaCO<sub>3</sub>)</b> | <b>(mg/L as<br/>CaCO<sub>3</sub>)</b> | <b>(mg/L as<br/>CaCO<sub>3</sub>)</b> |
|------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Total Alkalinity | 72.7 *                                | 75.0 *                                |                                       |                                       |                                       |                                       |
| Total Hardness   | 70.0                                  | 138                                   |                                       |                                       |                                       |                                       |
| Langelier Index  | --                                    | --                                    |                                       |                                       |                                       |                                       |

**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)   | 0.00654       | 0.00094       | 0.01          |               | 0.01          |               |
| Barium (Ba)    | 0.0758        | 0.0646        | 2             |               | 2             |               |
| Cadmium (Cd)   | <0.00100      | <0.00100      | 0.005         |               | 0.005         |               |
| Chromium (Cr)  | <0.00250      | <0.00250      | 0.1           |               | 0.1           |               |
| Copper (Cu)    | 0.0794        | 0.00344       | 1.3           | 1             | 1.3           | 1.0           |
| Iron (Fe)      | 0.313         | <0.200        |               | 0.3           |               | 0.3           |
| Lead (Pb)      | <0.000500     | <0.000500     | 0.015         |               | 0.015         |               |
| Manganese (Mn) | 0.213         | 0.00754       |               | 0.05          |               | 0.05          |
| Mercury (Hg)   | <0.000100     | <0.000100     | 0.002         |               | 0.002         |               |
| Nickel (Ni)    | <0.00100      | 0.00443       |               |               |               |               |
| Selenium (Se)  | <0.00100      | <0.00100      | 0.05          |               | 0.05          |               |
| Silver (Ag)    | <0.00050      | <0.00050      |               | 0.10          |               | 0.1           |
| Zinc (Zn)      | 0.00345       | <0.00250      |               | 5             |               | 5             |

**Other Analysis**

|                                     |        |        |     |           |     |      |
|-------------------------------------|--------|--------|-----|-----------|-----|------|
| Chlorine Residual (mg/L)            | --     | 3.12   | 4.0 |           | 4.0 |      |
| Total coliform ( Present / Absent ) | --     | A      | A   |           | A   |      |
| pH (Standard Units) @ 25°C          | 7.75 * | 7.97 * |     | 6.5 - 8.5 |     | >7.0 |
| Specific Conductance (Umhos)        | 160    | 372    |     |           |     |      |
| Turbidity (NTU)                     | 14.0 * | 0.06 * | 0.3 |           | 0.3 |      |
| Threshold Odor Number               | 3      | <1     |     |           |     | 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.**