

**NORTH TEXAS MUNICIPAL WATER DISTRICT - Wylie**

**Water Analysis**

**Mar-2019**

| <b>Mineral Analysis</b> | <b>Raw</b>    | <b>Treated</b> | <b>Standards</b>   |                      |                     |                       |
|-------------------------|---------------|----------------|--------------------|----------------------|---------------------|-----------------------|
|                         |               |                | <b>EPA Primary</b> | <b>EPA Secondary</b> | <b>TCEQ Primary</b> | <b>TCEQ 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  | 362           | 413            |                    | 500                  |                     | 1000                  |
| Silica (SiO2)           | 7.13          | 6.19           |                    |                      |                     |                       |
| Iron (Fe)               | 0.718         | 0.461          |                    | 0.3                  |                     | 0.3                   |
| Calcium (Ca)            | 74.1          | 65.3           |                    |                      |                     |                       |
| Magnesium (Mg)          | 8.95          | 6.12           |                    |                      |                     |                       |
| Sodium (Na)             | 57.8          | 65.9           |                    |                      |                     |                       |
| Potassium (K)           | 3.35          | 3.06           |                    |                      |                     |                       |
| Sulfate (SO4)           | 64.4          | 132            |                    | 250                  |                     |                       |
| Nitrite (NO2)           | <0.0100       | <0.0100        | 1                  |                      | 1                   |                       |
| Nitrate (NO3)           | 0.822         | 0.792          | 10                 |                      | 10                  |                       |
| Chloride (Cl)           | 68.0          | 56.2           |                    | 250                  |                     | 300                   |
| Fluoride (F)            | 0.206         | 0.287 *        | 4.0                | 2.0                  | 4.0                 | 2.0                   |
| Phosphates (PO4)        | 0.0870        | <0.0100        |                    |                      |                     |                       |

|                  | <b>(mg/L as CaCO3)</b> | <b>(mg/L as CaCO3)</b> | <b>(mg/L as CaCO3)</b> | <b>(mg/L as CaCO3)</b> | <b>(mg/L as CaCO3)</b> | <b>(mg/L as CaCO3)</b> |
|------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Total Alkalinity | 142 *                  | 108 *                  |                        |                        |                        |                        |
| Total Hardness   | 198                    | 185                    |                        |                        |                        |                        |
| Langelier Index  |                        | 0.1872                 |                        |                        |                        |                        |

**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)   | 0.00179       | 0.00038       | 0.01          |               | 0.01          |               |
| Barium (Ba)    | 0.0724        | 0.0539        | 2             |               | 2             |               |
| Cadmium (Cd)   | <0.000500     | <0.000500     | 0.005         |               | 0.005         |               |
| Chromium (Cr)  | <0.00125      | <0.00125      | 0.1           |               | 0.1           |               |
| Copper (Cu)    | 0.0388        | 0.00320       | 1.3           | 1             | 1.3           | 1.0           |
| Iron (Fe)      | 0.718         | 0.461         |               | 0.3           |               | 0.3           |
| Lead (Pb)      | 0.000376      | <0.000250     | 0.015         |               | 0.015         |               |
| Manganese (Mn) | 0.0228        | 0.0189        |               | 0.05          |               | 0.05          |
| Mercury (Hg)   | <0.0000500    | <0.0000500    | 0.002         |               | 0.002         |               |
| Nickel (Ni)    | 0.00784       | 0.0121        |               |               |               |               |
| Selenium (Se)  | 0.00110       | 0.000822      | 0.05          |               | 0.05          |               |
| Silver (Ag)    | <0.000250     | <0.000250     |               | 0.10          |               | 0.1           |
| Zinc (Zn)      | 0.0139        | 0.00427       |               | 5             |               | 5             |

**Other Analysis**

|                                     |        |          |     |           |     |      |
|-------------------------------------|--------|----------|-----|-----------|-----|------|
| Chlorine Residual (mg/L)            | --     | 3.44 *   | 4.0 |           | 4.0 |      |
| Total coliform ( Present / Absent ) | --     | A *      | A   |           | A   |      |
| pH (Standard Units) @ 25°C          | 8.43 * | 8.15 *   |     | 6.5 - 8.5 |     | >7.0 |
| Specific Conductance (Umhos)        | 620 *  | 684 *    |     |           |     |      |
| Turbidity (NTU)                     | 13.8 * | 0.0708 * | 0.3 |           | 0.3 |      |
| Threshold Odor Number               | 17.0   | 4.0      |     |           |     | 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.**