

**NTMWD Tawakoni Water Treatment Plants**  
**Water Quality Data for Year 2024**

| Coliform Bacteria              |  |                         |   |   |           |                                       |  |
|--------------------------------|--|-------------------------|---|---|-----------|---------------------------------------|--|
| Maximum Contaminant Level Goal | Total Coliform Maximum Contaminant Level | Highest No. of Positive | Fecal Coliform or E. Coli Maximum Contaminant Level | Total No. of Positive E. Coli or Fecal Coliform Samples | Violation | Likely Source of Contamination        |  |
| 0                              | 1 positive monthly sample                | 0.00                    | 0   | 0   | No        | Naturally present in the environment. |  |

NOTE: Reported monthly tests found no fecal coliform bacteria. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful bacteria may be present.

| Regulated Contaminants        |                 |                                |                          |                       |     |       |           |  |
|-------------------------------|-----------------|--------------------------------|--------------------------|-----------------------|-----|-------|-----------|--|
| Disinfection By-Products      | Collection Date | Highest Level Detected         | Range of Levels Detected | MCLG                  | MCL | Units | Violation | Likely Source of Contamination             |
| Total Haloacetic Acids (HAA5) | 2024            | 26.70                          | 11.9 - 26.7              | No goal for the total | 60  | ppb   | No        | By-product of drinking water disinfection. |
| Total Trihalomethanes (TTHM)  | 2024            | 56.00                          | 23.4 - 56.0              | No goal for the total | 80  | ppb   | No        | By-product of drinking water disinfection. |
| Bromate                       | 2024            | Levels lower than detect level | 0 - 0                    | 5                     | 10  | ppb   | No        | By-product of drinking water ozonation.    |

NOTE: Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future. TCEQ only requires one sample annually for compliance testing. For Bromate, compliance is based on the running annual average.

| Inorganic Contaminants         | Collection Date | Highest Level Detected         | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination   |
|--------------------------------|-----------------|--------------------------------|--------------------------|------|-----|-------|-----------|--|
| Antimony                       | 2024            | Levels lower than detect level | 0 - 0                    | 6    | 6   | ppb   | No        | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; and test addition.                              |
| Arsenic                        | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 10  | ppb   | No        | Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.                              |
| Barium                         | 2024            | 0.073                          | 0.073 - 0.073            | 2    | 2   | ppm   | No        | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.  |
| Beryllium                      | 2024            | Levels lower than detect level | 0 - 0                    | 4    | 4   | ppb   | No        | Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries.            |
| Cadmium                        | 2024            | Levels lower than detect level | 0 - 0                    | 5    | 5   | ppb   | No        | Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints. |
| Chromium                       | 2024            | Levels lower than detect level | 0 - 0                    | 100  | 100 | ppb   | No        | Discharge from steel and pulp mills; erosion of natural deposits.  |
| Cyanide                        | 2024            | 53.9                           | 53.9 - 53.9              | 200  | 200 | ppb   | No        | Discharge from steel/metal factories; Discharge from plastics and fertilizer factories.  |
| Fluoride                       | 2024            | 0.489                          | 0.489 - 0.489            | 4    | 4   | ppm   | No        | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.           |
| Mercury                        | 2024            | Levels lower than detect level | 0 - 0                    | 2    | 2   | ppb   | No        | Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland.                   |
| Nitrate (measured as Nitrogen) | 2024            | 0.172                          | 0.172 - 0.172            | 10   | 10  | ppm   | No        | Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.   |
| Selenium                       | 2024            | Levels lower than detect level | 0 - 0                    | 50   | 50  | ppb   | No        | Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.                                    |
| Thallium                       | 2024            | Levels lower than detect level | 0 - 0                    | 0.5  | 2   | ppb   | No        | Discharge from electronics, glass, and leaching from ore-processing sites; drug factories.   |

Nitrate Advisory: Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

| Radioactive Contaminants                | Collection Date | Highest Level Detected         | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination          |
|---|-----------------|--------------------------------|--------------------------|------|-----|-------|-----------|---|
| Beta/photon emitters                    | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 50  | pCi/L | No        | Decay of natural and man-made deposits. |
| Gross alpha excluding radon and uranium | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 15  | pCi/L | No        | Erosion of natural deposits.            |
| Radium                                  | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 5   | pCi/L | No        | Erosion of natural deposits.            |

**NTMWD Tawakoni Water Treatment Plants**  
**Water Quality Data for Year 2024 (Cont.)**

| Synthetic organic contaminants including pesticides and herbicides | Collection Date | Highest Level Detected         | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination   |
|--|-----------------|--------------------------------|--------------------------|------|-----|-------|-----------|--|
| 2, 4, 5 - TP (Silvex)  | 2024            | Levels lower than detect level | 0 - 0                    | 50   | 50  | ppb   | No        | Residue of banned herbicide.   |
| 2, 4 - D   | 2024            | Levels lower than detect level | 0 - 0                    | 70   | 70  | ppb   | No        | Runoff from herbicide used on row crops.   |
| Alachlor   | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 2   | ppb   | No        | Runoff from herbicide used on row crops.   |
| Aldicarb   | 2024            | Levels lower than detect level | 0 - 0                    | 1    | 3   | ppb   | No        | Runoff from agricultural pesticide.  |
| Aldicarb Sulfone   | 2024            | Levels lower than detect level | 0 - 0                    | 1    | 2   | ppb   | No        | Runoff from agricultural pesticide.  |
| Aldicarb Sulfoxide   | 2024            | Levels lower than detect level | 0 - 0                    | 1    | 4   | ppb   | No        | Runoff from agricultural pesticide.  |
| Atrazine   | 2024            | 0.1                            | 0.1 - 0.1                | 3    | 3   | ppb   | No        | Runoff from herbicide used on row crops.   |
| Benzo (a) pyrene   | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 200 | ppt   | No        | Leaching from linings of water storage tanks and distribution lines.                     |
| Carbofuran   | 2024            | Levels lower than detect level | 0 - 0                    | 40   | 40  | ppb   | No        | Leaching of soil fumigant used on rice and alfalfa.                                      |
| Chlordane  | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 2   | ppb   | No        | Residue of banned termiticide.   |
| Dalapon  | 2024            | Levels lower than detect level | 0 - 0                    | 200  | 200 | ppb   | No        | Runoff from herbicide used on rights of way.   |
| Di (2-ethylhexyl) adipate  | 2024            | Levels lower than detect level | 0 - 0                    | 400  | 400 | ppb   | No        | Discharge from chemical factories.   |
| Di (2-ethylhexyl) phthalate  | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 6   | ppb   | No        | Discharge from rubber and chemical factories.  |
| Dibromochloropropane (DBCP)  | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 200 | ppt   | No        | Runoff / leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards. |
| Dinoseb  | 2024            | Levels lower than detect level | 0 - 0                    | 7    | 7   | ppb   | No        | Runoff from herbicide used on soybeans and vegetables.                                   |
| Endrin   | 2024            | Levels lower than detect level | 0 - 0                    | 2    | 2   | ppb   | No        | Residue of banned insecticide.   |
| Ethylene dibromide   | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 50  | ppt   | No        | Discharge from petroleum refineries.   |
| Heptachlor   | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 400 | ppt   | No        | Residue of banned termiticide.   |
| Heptachlor epoxide   | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 200 | ppt   | No        | Breakdown of heptachlor.   |
| Hexachlorobenzene  | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 1   | ppb   | No        | Discharge from metal refineries and agricultural chemical factories.                     |
| Hexachlorocyclopentadiene  | 2024            | Levels lower than detect level | 0 - 0                    | 50   | 50  | ppb   | No        | Discharge from chemical factories.   |
| Lindane  | 2024            | Levels lower than detect level | 0 - 0                    | 200  | 200 | ppt   | No        | Runoff / leaching from insecticide used on cattle, lumber, and gardens.                  |
| Methoxychlor   | 2024            | Levels lower than detect level | 0 - 0                    | 40   | 40  | ppb   | No        | Runoff / leaching from insecticide used on fruits, vegetables, alfalfa, and livestock.   |
| Oxamyl [Vydate]  | 2024            | Levels lower than detect level | 0 - 0                    | 200  | 200 | ppb   | No        | Runoff / leaching from insecticide used on apples, potatoes, and tomatoes.               |
| Pentachlorophenol  | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 1   | ppb   | No        | Discharge from wood preserving factories.  |
| Picloram   | 2024            | Levels lower than detect level | 0 - 0                    | 500  | 500 | ppb   | No        | Herbicide runoff.  |
| Simazine   | 2024            | Levels lower than detect level | 0 - 0                    | 4    | 4   | ppb   | No        | Herbicide runoff.  |
| Toxaphene  | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 3   | ppb   | No        | Runoff / leaching from insecticide used on cotton and cattle.                            |
| Volatile Organic Contaminants                                      | Collection Date | Highest Level Detected         | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination   |
| 1, 1, 1 - Trichloroethane  | 2024            | Levels lower than detect level | 0 - 0                    | 200  | 200 | ppb   | No        | Discharge from metal degreasing sites and other factories.                               |
| 1, 1, 2 - Trichloroethane  | 2024            | Levels lower than detect level | 0 - 0                    | 3    | 5   | ppb   | No        | Discharge from industrial chemical factories.  |
| 1, 1, 1 - Dichloroethylene   | 2024            | Levels lower than detect level | 0 - 0                    | 7    | 7   | ppb   | No        | Discharge from industrial chemical factories.  |
| 1, 2, 4 - Trichlorobenzene   | 2024            | Levels lower than detect level | 0 - 0                    | 70   | 70  | ppb   | No        | Discharge from textile-finishing factories.  |
| 1, 2 - Dichloroethane  | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from industrial chemical factories.  |
| 1, 2 - Dichloropropane   | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from industrial chemical factories.  |
| Benzene  | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from factories; leaching from gas storage tanks and landfills.                 |
| Carbon Tetrachloride   | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from chemical plants and other industrial activities.                          |

**NTMWD Tawakoni Water Treatment Plants**  
**Water Quality Data for Year 2024 (Cont.)**

| Volatile Organic Contaminants   | Collection Date | Highest Level Detected         | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination   |
|---------------------------------|-----------------|--------------------------------|--------------------------|------|-----|-------|-----------|--|
| Chlorobenzene                   | 2024            | Levels lower than detect level | 0 - 0                    | 100  | 100 | ppb   | No        | Discharge from chemical and agricultural chemical factories.           |
| Dichloromethane                 | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from pharmaceutical and chemical factories.                  |
| Ethylbenzene                    | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 700 | ppb   | No        | Discharge from petroleum refineries.                                   |
| Styrene                         | 2024            | Levels lower than detect level | 0 - 0                    | 100  | 100 | ppb   | No        | Discharge from rubber and plastic factories; leaching from landfills.  |
| Tetrachloroethylene             | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from factories and dry cleaners.                             |
| Toluene                         | 2024            | Levels lower than detect level | 0 - 0                    | 1    | 1   | ppm   | No        | Discharge from petroleum factories.                                    |
| Trichloroethylene               | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from metal degreasing sites and other factories.             |
| Vinyl Chloride                  | 2024            | Levels lower than detect level | 0 - 0                    | 0    | 2   | ppb   | No        | Leaching from PVC piping; discharge from plastics factories.           |
| Xylenes                         | 2024            | Levels lower than detect level | 0 - 0                    | 10   | 10  | ppm   | No        | Discharge from petroleum factories; discharge from chemical factories. |
| cis - 1, 2 - Dichloroethylene   | 2024            | Levels lower than detect level | 0 - 0                    | 70   | 70  | ppb   | No        | Discharge from industrial chemical factories.                          |
| o - Dichlorobenzene             | 2024            | Levels lower than detect level | 0 - 0                    | 600  | 600 | ppb   | No        | Discharge from industrial chemical factories.                          |
| p - Dichlorobenzene             | 2024            | Levels lower than detect level | 0 - 0                    | 75   | 75  | ppb   | No        | Discharge from industrial chemical factories.                          |
| trans - 1, 2 - Dichloroethylene | 2024            | Levels lower than detect level | 0 - 0                    | 100  | 100 | ppb   | No        | Discharge from industrial chemical factories.                          |

**Turbidity**

|  | Limit (Treatment Technique) | Level Detected | Violation | Likely Source of Contamination |
|--|-----------------------------|----------------|-----------|--------------------------------|
| <b>Highest single measurement</b>                  | 1 NTU                       | 0.41           | No        | Soil runoff.                   |
| <b>Lowest monthly percentage (%) meeting limit</b> | 0.3 NTU                     | 99.4%          | No        | Soil runoff.                   |

**NOTE:** Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration.

**Maximum Residual Disinfectant Level**

| Disinfectant Type               | Year | Average Level | Minimum Level | Maximum Level | MRDL | MRDLG | Units | Source of Chemical                     |
|---------------------------------|------|---------------|---------------|---------------|------|-------|-------|--|
| Chlorine Residual (Chloramines) | 2024 | <b>3.05</b>   | <b>1.00</b>   | <b>4.00</b>   | 4.00 | <4.0  | ppm   | Disinfectant used to control microbes. |
| Chlorine Dioxide                | 2024 | 0.033         | 0             | 0.68          | 0.80 | 0.80  | ppm   | Disinfectant.                          |
| Chlorite                        | 2024 | 0.129         | 0             | 0.86          | 1.00 | N/A   | ppm   | Disinfectant.                          |

**NOTE:** Water providers are required to maintain a minimum chlorine disinfection residual level of 0.5 parts per million (ppm) for systems disinfecting with chloramines and an annual average chlorine disinfection residual level of between 0.5 ppm and 4 ppm.

**Total Organic Carbon**

|   | Collection Date | Highest Level Detected | Range of Levels Detected | Units | Likely Source of Contamination |
|---|-----------------|------------------------|--------------------------|-------|--------------------------------|
| The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set. |                 |                        |                          |       |                                |

## NTMWD Tawakoni Water Treatment Plants Water Quality Data for Year 2024 (Cont.)

### Lead and Copper

| Lead and Copper | Date Sampled | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination  |
|-----------------|--------------|-------------------|-----------------|-----------------|-------|-----------|---|
| Lead            | 6/13/2022    | 15                | 0.0018          | 0               | ppb   | No        | Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems. |
| Copper          | 6/13/2022    | 1.3               | 0.31            | 0               | ppm   | No        | Corrosion of household plumbing systems; erosion of natural deposits.                                   |

LEAD AND COPPER RULE: The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and Copper enter drinking water mainly from corrosion of plumbing materials containing lead and copper.

ADDITIONAL HEALTH INFORMATION FOR LEAD: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. [Customer] is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

### Unregulated Contaminants

| Contaminants         | Collection Date | Highest Level Detected | Range of Levels Detected | Units | Likely Source of Contamination             |
|----------------------|-----------------|------------------------|--------------------------|-------|--|
| Chloroform           | 2024            | 34.9                   | 6.87 - 34.9              | ppb   | By-product of drinking water disinfection. |
| Bromoform            | 2024            | 1.83                   | <1.00 - 1.83             | ppb   | By-product of drinking water disinfection. |
| Bromodichloromethane | 2024            | 14.9                   | 8.81 - 14.9              | ppb   | By-product of drinking water disinfection. |
| Dibromochloromethane | 2024            | 7.09                   | 5.94 - 7.09              | ppb   | By-product of drinking water disinfection. |

NOTE: Bromoform, chloroform, bromodichloromethane, and dibromochloromethane are disinfection by-products. There is no maximum contaminant level for these chemicals at the entry point to distribution. These contaminants are included in the Disinfection By-Products TTHM compliance data.

### Secondary and Other Constituents Not Regulated

| Contaminants                          | Collection Date | Highest Level Detected         | Range of Levels Detected | Units | Likely Source of Contamination  |
|---------------------------------------|-----------------|--------------------------------|--------------------------|-------|---|
| Aluminum                              | 2024            | 0.023                          | 0.023 - 0.023            | ppm   | Erosion of natural deposits.  |
| Calcium                               | 2024            | 46.8                           | 38.6 - 46.8              | ppm   | Abundant naturally occurring element.   |
| Chloride                              | 2024            | 19.2                           | 12.5 - 19.2              | ppm   | Abundant naturally occurring element; used in water purification; by-product of oil field activity. |
| Iron                                  | 2024            | Levels lower than detect level | 0 - 0                    | ppm   | Erosion of natural deposits; iron or steel water delivery equipment or facilities.                  |
| Magnesium                             | 2024            | 2.64                           | 2.64 - 2.64              | ppm   | Abundant naturally occurring element.   |
| Manganese                             | 2024            | 0.0085                         | 0.0085 - 0.0085          | ppm   | Abundant naturally occurring element.   |
| Nickel                                | 2024            | 0.0043                         | 0.0043 - 0.0043          | ppm   | Erosion of natural deposits.  |
| pH                                    | 2024            | 8.2                            | 7.3 - 8.2                | units | Measure of corrosivity of water.  |
| Silver                                | 2024            | Levels lower than detect level | 0 - 0                    | ppm   | Erosion of natural deposits.  |
| Sodium                                | 2024            | 19.7                           | 14.5 - 19.7              | ppm   | Erosion of natural deposits; by-product of oil field activity.                                      |
| Sulfate                               | 2024            | 78.8                           | 54.0 - 78.8              | ppm   | Naturally occurring; common industrial by-product; by-product of oil field activity.                |
| Total Alkalinity as CaCO <sub>3</sub> | 2024            | 86.6                           | 59.2 - 86.6              | ppm   | Naturally occurring soluble mineral salts.  |
| Total Dissolved Solids                | 2024            | 221                            | 168 - 221                | ppm   | Total dissolved mineral constituents in water.  |
| Total Hardness as CaCO <sub>3</sub>   | 2024            | 127                            | 102 - 127                | ppm   | Naturally occurring calcium.  |
| Zinc                                  | 2024            | Levels lower than detect level | 0 - 0                    | ppm   | Moderately abundant naturally occurring element used in the metal industry.                         |

### Violations Table

| Violation Type | Violation Begin | Violation End | Violation Explanation |
|----------------|-----------------|---------------|-----------------------|
|                |                 |               |                       |

### Unregulated Contaminant Monitoring Rule (UCMR5)

PWSs are required to report UCMR results in the CCR when unregulated contaminants are found (i.e., measured at or above minimum reporting levels [MRLs]), and must report the average and range of the monitoring results for the report year. Additionally, PWSs are required to notify customers through Tier 3 Public Notification (PN) about the availability of all UCMR results no later than 12 months after they are known by the PWS. If timing and delivery requirements are met, systems may include their PN within the CCR, also known as annual drinking water quality report. EPA has resources for PWSs available on the CCR and PN Compliance help webpages.

| Contaminants          | Collection | Average Level | Range of Levels | MRL | Units | Likely Source of Contamination |
|-----------------------|------------|---------------|-----------------|-----|-------|--------------------------------|
| PFxA(CAS 307-24-4)    | 2024       | 0.00766       | 0.0029          |     | ppb   |                                |
| PFBS (CAS375-73-5)    | 2024       | 0.00581       | 0.0029          |     | ppb   |                                |
| PFPeA (CAS 2706-90-3) | 2024       | 0.00849       | 0.0029          |     | ppb   |                                |
| PFBA (CAS 375-22-4)   | 2024       | 0.0108        | 0.0029          |     | ppb   |                                |

### Lead Service Line Inventory

North Texas Municipal Water District has completed its service line inventory and determined through field investigations that no lead, galvanized requiring replacement, or lead status unknown service lines are in the system. To view and access the service line inventory, go to <https://www.ntmwd.com/200/Water-Quality>.