

2018 Consumer Confidence Report for Public Water System CITY OF MIDLOTHIAN

This is your water quality report for January 1 to December 31, 2018

For more information regarding this report contact:

CITY OF MIDLOTHIAN provides surface water from Joe Pool lake in Ellis, Dallas and Tarrant counties and Cedar Creek lake in Henderson and Kaufman counties and Richland Chambers lake in Navarro and Freestone counties.

Name Tim Walker

Phone (972)-775-6663

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al teléfono. (972)-775-3481

Definitions and Abbreviations

| | |
|--|--|
| Definitions and Abbreviations | The following tables contain scientific terms and measures, some of which may require explanation. |
| Action Level: | The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. |
| Action Level Goal (ALG): | The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety. |
| Avg: | Regulatory compliance with some MCLs are based on running annual average of monthly samples. |
| Level 1 Assessment: | A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system. |
| Level 2 Assessment: | A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions. |
| Maximum Contaminant Level or MCL: | The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. |
| Maximum Contaminant Level Goal or MCLG: | The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. |
| Maximum residual disinfectant level or MRDL: | The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants. |
| Maximum residual disinfectant level goal or MRDLG: | The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants. |
| MFL | million fibers per liter (a measure of asbestos) |
| mrem: | millirems per year (a measure of radiation absorbed by the body) |
| na: | not applicable. |
| NTU | nephelometric turbidity units (a measure of turbidity) |
| pCi/L | picocuries per liter (a measure of radioactivity) |

Definitions and Abbreviations

| | |
|----------------------------|---|
| ppb: | micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water. |
| ppm: | milligrams per liter or parts per million - or one ounce in 7,350 gallons of water. |
| ppq | parts per quadrillion, or picograms per liter (pg/L) |
| ppt | parts per trillion, or nanograms per liter (ng/L) |
| Treatment Technique or TT: | A required process intended to reduce the level of a contaminant in drinking water. |

Information about your Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800-426-4791).

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. We are responsible for providing high quality drinking water, but we 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>.

Water Loss Audit

In the water loss audit submitted to the Texas Water Development Board for the time period of Jan-Dec 2018, our system lost an estimated 6,814,148 gallons of water. If you have any questions about the water loss audit please call PWS phone number.

Information about Source Water

CITY OF MIDLOTHIAN purchases raw surface water for treatment from Tarrant Regional Water District. Tarrant Regional Water District's raw surface water comes from Cedar Creek Lake and Richland Chambers Lake. The City also purchases raw surface water for treatment from Trinity River Authority. Trinity River Authority's raw surface water comes from Joe Pool Lake.

TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact **Tim Walker at 972-775-6663**.

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|-----------------|-----------------|-------|-----------|---|
| Copper | 09/15/2016 | 1.3 | 1.3 | 0.18 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |

2018 Water Quality Test Results

| Disinfection By-Products | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|------------------------------|-----------------|------------------------|-----------------------------|-----------------------|-----|-------|-----------|--|
| Chlorite | 2018 | 1 | 0.218 - 1 | 0.8 | 1 | ppm | N | By-product of drinking water disinfection. |
| Haloacetic Acids (HAA5) | 2018 | 38 | 18.5 - 63.8 | No goal for the total | 60 | ppb | N | By-product of drinking water disinfection. |
| Total Trihalomethanes (TTHM) | 2018 | 34 | 15.9 - 53.9 | No goal for the total | 80 | ppb | N | By-product of drinking water disinfection. |

| Inorganic Contaminants | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--------------------------------|-----------------|------------------------|-----------------------------|------|-----|-------|-----------|--|
| Arsenic | 2018 | 1.2 | 0 - 1.2 | 0 | 10 | ppb | N | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes. |
| Barium | 2018 | 0.058 | 0.044 - 0.058 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Cyanide | 2018 | 98 | 59.4 - 98 | 200 | 200 | ppb | N | Discharge from plastic and fertilizer factories; Discharge from steel/metal factories. |
| Fluoride | 2018 | 0.315 | 0.204 - 0.315 | 4 | 4.0 | ppm | N | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |
| Nitrate [measured as Nitrogen] | 2018 | 0.331 | 0.112 - 0.331 | 10 | 10 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |
| Nitrite [measured as Nitrogen] | 09/16/2013 | 0.0515 | 0.0515 - 0.0515 | 1 | 1 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |

| Radioactive Contaminants | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--------------------------|-----------------|------------------------|-----------------------------|------|-----|--------|-----------|--|
| Beta/photon emitters | 09/28/2017 | 6.5 | 6.5 - 6.5 | 0 | 50 | pCi/L* | N | Decay of natural and manmade deposits. |

*EPA considers 50 pCi/L to be the level of concern for beta particles.

| Synthetic organic contaminants including pesticides and herbicides | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--|-----------------|------------------------|-----------------------------|------|-----|-------|-----------|--|
| Atrazine | 2018 | 0.4 | 0.3 - 0.4 | 3 | 3 | ppb | N | Runoff from herbicide used on row crops. |
| Simazine | 2018 | 0.21 | 0 - 0.21 | 4 | 4 | ppb | N | Herbicide runoff. |

Disinfectant Residual

| Disinfectant Residual | Year | Average Level | Range of Levels Detected | MRDL | MRDLG | Unit of Measure | Violation (Y/N) | Source in Drinking Water |
|-----------------------|------|---------------|--------------------------|------|-------|-----------------|-----------------|---|
| | 2018 | 2.94 | 0.50 – 4.00 | 4 | 4 | PPM | N | Water additive used to control microbes |

Turbidity

| | Highest Level Detected | Limit (Treatment Technique) | Violation | Likely Source of Contamination |
|--------------------------------|------------------------|-----------------------------|-----------|--------------------------------|
| Highest single measurement | 0.44 NTU | 1 NTU | N | Soil runoff. |
| Lowest monthly % meeting limit | 95% | 0.3 NTU | N | Soil runoff. |

Information Statement: 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 system and disinfectants.

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal is measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

The City of Midlothian has two in house labs, one at each water treatment plant, where the water quality is being tested hourly. The City also has on – line equipment that continuously monitors the quality of the drinking water. Along with the City testing, water samples, are also collected on a monthly basis and sent to a certified laboratory for testing. The State collects samples on a quarterly basis sends these samples to the state contracted lab for further analysis.

In June of 2019 the City will begin the EPA required Lead and Copper testing. The City would like to thank the citizens that have offered to help by taking water samples at their homes.

The City of Midlothian has and continues to maintain a **Superior** rating with The State of Texas. The City Water Treatment Plants have received multiple awards from the State over the years for meeting the highest standards possible.

For specific information about your water system visit Texas Drinking Water Watch at <http://dww2.tceq.texas.gov/DWW/>!