



City of Willis: 2023 Drinking Water Quality Report for the Willis Water System

Reporting Period: January 1 – December 31, 2024

This report is a summary of the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the attached pages. We hope this information helps you become more knowledgeable about what's in your drinking water.

Water Sources: 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 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 before treatment include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants.

- 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 runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts 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.

Where Do We get our Drinking Water? Our drinking water is obtained from GROUND water sources. It comes from the following Lake/ River/ Reservoir/Aquifer: Jasper. The TCEQ completed an assessment of your source water, and the results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detections of these contaminants may be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, contact the City of Willis. The information contained in the assessment allows us to focus our source water protection strategies. Some of this source water assessment information will be available later this year on Texas Drinking Water Watch at <http://dww.tceq.state.tx.us/DWW/>. For more information on source water assessments and protection efforts at our system, please contact us.

ALL drinking water may contain contaminants: When drinking water meets federal standards, there may not be any health-based benefits to purchasing bottled water or point-of-use devices. 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: (1-800-426-4791).

Special Notice for ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems: 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, those 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 provider. Additional guidelines on appropriate means to lessen the risk of infection by cryptosporidium are available from the Safe Drinking Water Hotline at (800)426-4791

2024 Consumer Confidence Report for Public Water System CITY OF WILLIS

This is your water quality report for January 1 to December 31, 2024

CITY OF WILLIS provides ground water from [Gulf Coast/Jasper/Catahoula] located in [County of Montgomery, City of Willis].

For more information regarding this report, contact:

Name Robert Byerly

Phone (936) 856-4611

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (936) 856-4611.

Definitions and Abbreviations

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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.

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 svstem.

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 whv total coliform bacteria have been found in our water svstem 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 |
| ppm: | milligrams per liter or parts per million |
| 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>.

This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/L) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by your community water system [City of Willis] has a fluoride concentration of [2.02] mg/L.

Dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

For more information, please call [Robert Byerly] of [City of Willis] at [(936)856-4611]. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8-NSF-HELP.

Information about Source Water

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 [Robert Byerly] [936]856-4611.

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. | 2 | 2 | 0 | N | Naturally present in the environment. |

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|-----------------|-----------------|-------|-----------|---|
| Copper | 2024 | 1.3 | 1.3 | 0.0528 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |

2024 Water Quality Test Results

| Disinfection By-Products | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--------------------------|-----------------|------------------------|-----------------------------|-----------------------|-----|-------|-----------|--|
| Haloacetic Acids (HAA5) | 2024 | 2 | 1.7 - 1.7 | No goal for the total | 60 | ppb | N | By-product of drinking water disinfection. |

*The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year

| | | | | | | | | |
|------------------------------|------|----|-------------|-----------------------|----|-----|---|--|
| Total Trihalomethanes (TTHM) | 2024 | 15 | 14.8 - 14.8 | No goal for the total | 80 | ppb | N | By-product of drinking water disinfection. |
|------------------------------|------|----|-------------|-----------------------|----|-----|---|--|

*The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

| Inorganic Contaminants | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--------------------------------|-----------------|------------------------|-----------------------------|------|-----|-------|-----------|--|
| Arsenic | 10/02/2023 | 4.4 | 4.4 - 4.4 | 0 | 10 | ppb | N | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes. |
| Barium | 10/02/2023 | 0.0496 | 0.0496 - 0.0496 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Fluoride | 10/02/2023 | 2.02 | 2.02 - 2.02 | 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] | 2024 | 0.09 | 0 - 0.09 | 10 | 10 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |

| | | | | | | | | |
|----------|------------|------|-------------|----|----|-----|---|---|
| Selenium | 10/02/2023 | 10.7 | 10.7 - 10.7 | 50 | 50 | ppb | N | Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines. |
|----------|------------|------|-------------|----|----|-----|---|---|

| Radioactive Contaminants | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--------------------------|-----------------|------------------------|-----------------------------|------|-----|--------|-----------|---|
| Beta/photon emitters | 03/22/2022 | 8.2 | 6.7 - 8.2 | 0 | 50 | pCi/L* | N | Decay of natural and man-made deposits. |

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

| | | | | | | | | |
|-------------------------|------------|-----|-----------|---|---|-------|---|------------------------------|
| Combined Radium 226/228 | 03/22/2022 | 1.5 | 1.5 - 1.5 | 0 | 5 | pCi/L | N | Erosion of natural deposits. |
|-------------------------|------------|-----|-----------|---|---|-------|---|------------------------------|

| Volatile Organic Contaminants | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|-------------------------------|-----------------|------------------------|-----------------------------|------|-----|-------|-----------|--|
| Xylenes | 2024 | 0.0007 | 0 - 0.0007 | 10 | 10 | ppm | N | Discharge from petroleum factories; Discharge from chemical factories. |

Disinfectant Residual

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).

| Disinfectant Residual | Year | Average Level | Range of Levels Detected | MRDL | MRDLG | Unit of Measure | Violation (Y/N) | Source in Drinking Water |
|-----------------------|------|---------------|--------------------------|------|-------|-----------------|-----------------|---|
| Chlorine | 2024 | 1.70 | L .80 H 2.65 | 4 | 4 | PPM | No | Water additives used to control microbes. |

Lead Service Line Inventory Notice

In accordance with EPA's Lead and Copper Rule Revisions (LCRR), the City of Willis has completed its Lead Service Line Inventory. This inventory identifies the types of service lines connected to our water system. If you would like to view the inventory, it is available for public inspection at Willis City Hall during regular business hours. For more information, please contact Public Works Director Robert Byerly at 936-856-4611.

Violations

| E. coli | | | |
|--|------------------------|----------------------|---|
| Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised immune systems. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITOR GWR TRIGGERED/ADDITIONAL, MINOR | 06/28/2024 | 2024 | We failed to collect all the required follow-up samples within 24 hours of learning of the total coliform-positive sample. These needed to be tested for fecal indicators from all sources that were being used at the time the positive sample was collected. We are required to monitor the quality of our groundwater when certain conditions occur to ensure the safety of your drinking water. During June/2024, we did not complete all required testing. This does not necessarily mean that your water was unsafe, but we cannot be sure of its quality during that time. We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During June/2024, we did not complete all monitoring or testing, and therefore cannot be sure of the quality of your drinking water during that time. |

| 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 lead and copper containing plumbing materials. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| FOLLOW-UP OR ROUTINE TAP M/R (LCR) | 10/01/2024 | 2024 | We failed to test our drinking water for the contaminant and the period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated. During October/2024, we did not collect enough samples for lead and copper testing as required by the Lead and Copper Rule. Because of this, we cannot be sure of the quality of your drinking water regarding lead and copper during that time |