

# Water Quality Report



# 2016 Annual Drinking Water Quality Report

## (Consumer Confidence Report)

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CITY OF WAXAHACHIE

401 S Rogers  
Waxahachie, Texas 75165

(469) 309-4320

[www.waxahachie.com](http://www.waxahachie.com)

### SPECIAL NOTICE

#### Required language for ALL community public water systems

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 (800) 426-4791.

#### Public Participation Opportunities

**Date:** City Council meetings 1<sup>st</sup> and 3<sup>rd</sup> Mondays of each month

**Time:** 7:00 p.m.

**Location:** Council Chambers, 401 S Rogers St, Waxahachie, Texas

**Phone:** 469-309-4000

To learn about future public meetings (concerning your drinking water), or to request to schedule one, please call us.

**En Español** Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. (469) 309-4000 para hablar con una persona bilingüe en español.

#### Our Drinking Water Meets or Exceeds All Federal (EPA) Drinking Water Requirements

We are proud to provide this report which summarizes the quality of water that we provide to 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 is 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 from human activity. Contaminants that may be present in source water before treatment include:

- Microbial contaminants, such as viruses and bacteria, which 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 agricultural, 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 results of oil and gas production and mining activities.

#### Where do we get our Drinking Water?

Our drinking water is obtained from SURFACE water sources. It comes from the following Lakes or Reservoirs: LAKE WAXAHACHIE, BARDWELL RESERVOIR, CEDAR CREEK RESERVOIR and RICHLAND CHAMBERS RESERVOIR. The TCEQ completed an assessment of your source water and 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 detection 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 Utility Administration at (469) 309-4320.

**NOTICE:** The City Water Conservation Ordinance No. 2742, Adopted by the City of Waxahachie City Council on May 5, 2014 prohibits irrigation, whether public or private, between the hours of 10:00 a.m. and 6:00 p.m. beginning June 1 through September 30 of any year. Hand-held watering, and soaker hoses are allowed anytime.

Water saving tips - do not water the gutters and sidewalks; water every third to fifth day instead of every day. More water saving information is available at city hall.

**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).

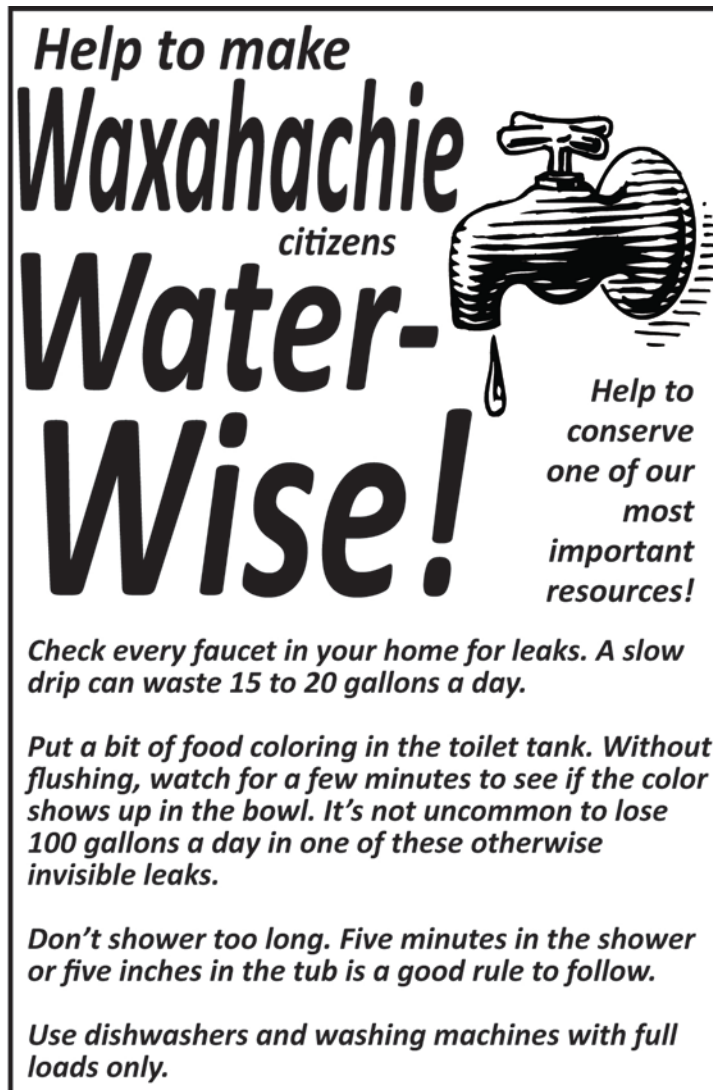
**About The Following Pages**

The pages that follow list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants.

**Available Resources:**

The internet is an excellent resource for drinking water information. The American Water Works Association (AWWA) is a reliable source of valuable water information. AWWA has launched an updated, user-friendly website at [DrinkTap.org](http://DrinkTap.org). This site contains water quality information on contaminants, water conservation, water security, water infrastructure, regulatory topics, source water, fluoridation, and consumer confidence reports.

**\*\*\*The City of Waxahachie received an award for meeting 5\*\*\*  
continuous years of extremely stringent water quality criteria, from  
the TCEQ voluntary Texas Optimization Program in 2016!!!**



*Help to make  
Waxahachie  
citizens  
Water-  
Wise!*

*Help to  
conserve  
one of our  
most  
important  
resources!*

*Check every faucet in your home for leaks. A slow  
drip can waste 15 to 20 gallons a day.*

*Put a bit of food coloring in the toilet tank. Without  
flushing, watch for a few minutes to see if the color  
shows up in the bowl. It's not uncommon to lose  
100 gallons a day in one of these otherwise  
invisible leaks.*

*Don't shower too long. Five minutes in the shower  
or five inches in the tub is a good rule to follow.*

*Use dishwashers and washing machines with full  
loads only.*

**DEFINITIONS**

**Maximum Contaminant Level (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 (MCLG):** The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.

**Maximum Residual Disinfectant Level (MRDL):** The highest level of 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 (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 contamination.

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

**Action Level (AL):** 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.

**Average:** Regulatory compliance with some MCLs are based on running annual average of monthly samples.

**ppm:** parts per million, or milligrams per liter – or one ounce in 7,350 gallons of water.

**ppb:** parts per billion, or micrograms per liter – or one ounce in 7,350,000 gallons of water.

**na:** not applicable.

**Definitions:** The following tables contain scientific terms and measures, some of which may require explanation.

**ABBREVIATIONS**

**NTU** -Nephelometric Turbidity Units

**MFL** -million fibers per liter (a measure of asbestos)

**pCi/L** -picocuries per liter (a measure of radioactivity)

**ppm** - parts per million, or milligrams per liter (mg/L)

**ppb** -parts per billion, or micrograms per liter (µg/L)

**ppt** -parts per trillion, or nanograms per liter

**ppq** -parts per quadrillion, or picograms per liter

**Inorganic Contaminants**

| Year | Contaminant | Highest Level Detected | Range of Level Detected | MCL | MCLG | Unit of Measure | Violation | Source of Contaminant  |
|------|-------------|------------------------|-------------------------|-----|------|-----------------|-----------|--|
| 2016 | Barium      | 0.046                  | .025 - .046             | 2   | 2    | ppm             | N         | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.                                |
| 2016 | Chromium    | 0.93                   | <0.40 – 0.93            | 100 | 100  | ppb             | N         | Discharge from steel and pulp mills; Erosion of natural deposits   |
| 2016 | Cyanide     | 84.2                   | 0.00 – 84.2             | 200 | 200  | ppb             | N         | Discharge from plastic and fertilizer factories; discharge from steel/metal factories.                                     |
| 2016 | Fluoride    | 0.55                   | 0.07 – 0.55             | 4.0 | 4    | ppm             | N         | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories. |
| 2016 | Nitrate     | 1.11                   | 0.374 – 1.11            | 10  | 10   | ppm             | N         | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.                               |

**Organic Contaminants**

| Year | Contaminant | Highest Level Detected | Range of Level Detected | MCL | MCLG | Unit of Measure | Violation | Source of Contaminant |
|------|-------------|------------------------|-------------------------|-----|------|-----------------|-----------|-----------------------|
| 2016 | Simazine    | 0.30                   | <0.05 – 0.30            | 4   | 4    | ppb             | N         | Herbicide runoff.     |

### Disinfection Byproducts

| Year | Contaminant                   | Highest Annual Average | Range of Level Detected | MCL | MCLG                  | Unit of Measure | Violation | Source of Contaminant                     |
|------|-------------------------------|------------------------|-------------------------|-----|-----------------------|-----------------|-----------|---|
| 2016 | Total Haloacetic Acids (HAA5) | 47.2                   | 21.5 – 54.6             | 60  | No goal for the total | ppb             | N         | Byproduct of drinking water disinfection. |
| 2016 | Total Trihalomethanes         | 61.1                   | 27.7 – 66.6             | 80  | No goal the total     | ppb             | N         | Byproduct of drinking water disinfection. |

### Unregulated Contaminants

| Chloroform, bromoform, bromodichloromethane and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to the distribution system. |                      |               |               |               |                 |   |  |  |
|--|----------------------|---------------|---------------|---------------|-----------------|---|--|--|
| Year   | Contaminant          | Average Level | Minimum Level | Maximum Level | Unit of Measure | Source of Contaminant                     |  |  |
| 2016   | Chloroform           | 26.64         | 15.6          | 60.6          | ppb             | Byproduct of drinking water disinfection. |  |  |
| 2016   | Bromoform            | 0.00          | 0.00          | 0.00          | ppb             | Byproduct of drinking water disinfection. |  |  |
| 2016   | Bromodichloromethane | 12.44         | 6.69          | 16.00         | ppb             | Byproduct of drinking water disinfection. |  |  |
| 2016   | Dibromochloromethane | 5.42          | 1.00          | 8.04          | ppb             | Byproduct of drinking water disinfection. |  |  |

### Total Organic Carbon

| Total organic carbon (TOC) has no health effects. The disinfectant can combine with TOC to form disinfectant byproducts. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. Byproducts of disinfection include trihalomethanes (THM's) and haloacetic acids (HAA) which are reported elsewhere in this report. |                |               |               |               |                 |                                       |  |
|--|----------------|---------------|---------------|---------------|-----------------|---------------------------------------|--|
| Year (Range)   | Contaminant    | Average Level | Minimum Level | Maximum Level | Unit of Measure | Source of Contaminant                 |  |
| 2016   | Source Water   | 5.15          | 4.10          | 7.80          | ppm             | Naturally present in the environment. |  |
| 2016   | Drinking Water | 3.29          | 2.30          | 4.10          | ppm             | Naturally present in the environment. |  |
| 2016   | Removal Ratio  | 1.16          | 1.00          | 1.76          | % removal*      | NA                                    |  |
| * Removal ratio is the percent of TOC removed by the treatment process divided by the percent of TOC required by TCEQ to be removed.   |                |               |               |               |                 |                                       |  |

### COLIFORMS

#### What are coliforms?

Total coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are hardier than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

Fecal coliform bacteria and, in particular, E. coli, are members of the coliform bacteria group originating in the intestinal tract of warm-blooded animals and are passed into the environment through feces. The presence of fecal coliform bacteria (E. coli) in drinking water may indicate recent contamination of the drinking water with fecal material. The following table indicates whether total coliform or fecal coliform bacteria were found in the monthly drinking water samples submitted for testing by your water supplier last year.

**Total Coliform**

| Year | Highest No. of Positive    | Total Coliform Maximum Contaminant Level (MCL) | Maximum Contaminant Level Goal (MCLG) | Violation | Source of Contaminant                 |
|------|----------------------------|--|---------------------------------------|-----------|---------------------------------------|
| 2016 | 0 positive monthly samples | *  | 0                                     | Y         | Naturally present in the environment. |

**\* 5% or more coliform samples found in any single month, a minimum of 40 samples are currently collected each month.**

**Important Information about your Drinking Water**  
**Reporting requirements not met for the City of Waxahachie**  
 We are required to report to the State the results of monitoring your drinking water for specific contaminants on a regular basis. Results of the regular monitoring are an indicator of whether or not your drinking water meets health standards. During the month of August 2016, we did not collect the required number of routine bacteriological samples, as such we did not submit the minimum number of monitoring results.  
 Our system failed to notify the state drinking water program, as required. Although public health was not impacted, as our customers, you have a right to know what happened and what we did to correct the situation.  
**What should I do?**  
 There is nothing you need to do at this time. You do not need to boil your water or take other actions.  
**What is being done?**  
 We did notify the state as quickly as we should have, however we notified the state on September 1, 2016 of the deficiency. We are no longer in violation, the system was back in compliance as of the September 2016 monitoring period.  
 For more information please contact David Bailey, Director of Utilities, at (469) 309-4320.

*\*Please share this information with all the other people who drink this water, especially those who many not have received this notice directly (for example people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distribution copies by hand or mail.\**

This notice is being sent to you by the City of Waxahachie. State Water System ID 0700008.  
 Date distributed: June 30, 2017

**Fecal Coliform REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA**

**Lead and Copper**

| Year (Range) | Contaminant | The 90 <sup>th</sup> Percentile | Number of Sites Exceeding Action Level | MCLG | Action Level | Violation | Unit of Measure | Source of Contaminant  |
|--------------|-------------|---------------------------------|--|------|--------------|-----------|-----------------|--|
| 2016         | Lead        | 0.0010                          | 0                                      | 0    | 0.015        | N         | ppm             | Corrosion of household plumbing systems; erosion of natural deposits                                   |
| 2016         | Copper      | 0.123                           | 0                                      | 1.3  | 1.3          | N         | ppm             | Corrosion of household plumbing systems; erosion of natural deposits leaching from wood preservatives. |

**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. This water supply 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>.

**Maximum Residual Disinfectant Level**

| Year | Disinfectant | Average Level | Minimum Level | Maximum Level | MRDL | MCLG  | Unit of Measure | Source of Contaminant                  |
|------|--------------|---------------|---------------|---------------|------|-------|-----------------|--|
| 2016 | Chloramines  | 3.2           | 0.7           | 5.2           | 4.0  | < 4.0 | ppm             | Disinfectant used to control microbes. |
| 2016 | Chlorite     | .26           | < 0.02        | 0.56          | 1.00 | < .8  | ppm             | Disinfectant used to control microbes  |

|      |                  |      |      |      |    |      |     |                                       |
|------|------------------|------|------|------|----|------|-----|---------------------------------------|
| 2016 | Chlorine Dioxide | 0.04 | 0.00 | 0.26 | .8 | < .8 | ppm | Disinfectant used to control microbes |
|------|------------------|------|------|------|----|------|-----|---------------------------------------|

### Secondary Constituents

Many constituents (such as calcium, sodium, or iron) which are often found in drinking water can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

### Secondary and Other Non-Regulated Constituents

(No associated adverse health effects)

| Year (Range) | Constituent                           | Average Level | Minimum Level | Maximum Level | Limit | Unit of Measure | Source of Constituent   |
|--------------|---------------------------------------|---------------|---------------|---------------|-------|-----------------|---|
| 2016         | Aluminum                              | 0.034         | 0.026         | 0.041         | 0.05  | ppm             | Abundant naturally occurring element.   |
| 2016         | Bicarbonate                           | 85            | 41            | 129           | NA    | ppm             | Corrosion of carbonate rocks such as limestone.   |
| 2016         | Calcium                               | 36.4          | 12.4          | 60.4          | NA    | ppm             | Abundant naturally occurring element.   |
| 2016         | Chloride                              | 12.7          | 12.0          | 13.4          | 300   | ppm             | Abundant naturally occurring element; used in water purification; byproduct of oil field activity       |
| 2016         | Copper                                | 0.0042        | 0.0018        | 0.0066        | 1     | ppm             | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives. |
| 2016         | Magnesium                             | 2.02          | 1.89          | 2.14          | NA    | ppm             | Abundant naturally occurring element.   |
| 2016         | Manganese                             | 0.0012        | 0.0005        | 0.0018        | 0.05  | ppm             | Abundant naturally occurring element.   |
| 2016         | Nickel                                | 0.0012        | 0.0010        | 0.0013        | NA    | ppm             | Erosion of natural deposits.  |
| 2016         | pH                                    | 7.75          | 6.38          | 9.20          | ≥7.0  | units           | Measure of corrosiveness of water.  |
| 2016         | Sodium                                | 22.0          | 20.7          | 23.3          | NA    | ppm             | Erosion of natural deposits; byproduct of oil field activity.   |
| 2016         | Sulfate                               | 42.8          | 57.2          | 28.4          | 300   | ppm             | Naturally occurring; common industrial byproduct; byproduct of oil field activity.                      |
| 2016         | Total Alkalinity as CaCO <sub>3</sub> | 87            | 45            | 129           | NA    | ppm             | Naturally occurring soluble mineral salts.  |
| 2016         | Total Dissolved Solids                | 198           | 125           | 271           | 1000  | ppm             | Total dissolved mineral constituents in water.  |
| 2016         | Total Hardness as CaCO <sub>3</sub>   | 99.4          | 39.8          | 159           | NA    | ppm             | Naturally occurring calcium.  |

### Water Loss as Reported in the Water Loss Audit

In the water loss audit submitted to the Texas Water Development Board for the time period of January 2016 to December 2016, our system lost an estimated 106,471,181 gallons of water, or 5.28% of total Water Produced. If you have any questions about the water loss audit please call **(469) 309-4320**.

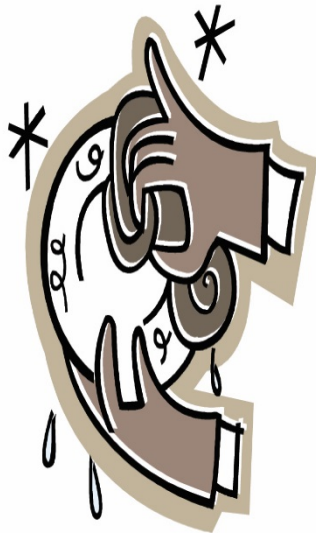
### Turbidity

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.

| 2016                           | Limit (Treatment Technique) | Level Detected | Violation | Likely Source of Contaminant |
|--------------------------------|-----------------------------|----------------|-----------|------------------------------|
| Highest single measurement     | 1 NTU                       | 0.22           | N         | Soil runoff                  |
| Lowest monthly % meeting limit | 0.3 NTU                     | 100%           | N         | Soil runoff                  |

# You can help prevent grease buildups from blocking sewer lines!

Follow these guidelines to help stop sewer overflows into streets and storm drains. Doing so will also save money on costly cleanups and repairs, and protect the quality of our water.



## **DO!**

Put used oil and grease in covered containers.

Scrape food scraps from dishes into cans and garbage bags and dispose of properly. Avoid using your garbage disposal.

Remove oil and grease from dishes, pans, fryers and griddles. Cool first before you skim, scrape, or wipe excess grease.

Rinse dishes and pans with cold water before putting them in the dishwasher.

Cover kitchen sink with catch basket and empty into garbage can as needed.

## **DON'T!**

Don't pour oil and grease down the drain.

Don't put food scraps down the drain.

Don't run water over dishes, pans, fryers and griddles to wash oil and grease down the drain.

Don't rinse off grease with hot water.

