



# 2019 Annual Drinking Water Quality Report

(Consumer Confidence Report)

**Safe – High Quality – Drinking Water – Right From Your Tap**

TX0430004

Annual Water Quality Report for the period of January 1 to December 31, 2019

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

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.

**For more information regarding this report contact:**

**Benjamin L. White, City Manager ~ (972) 782-6151**

Or Paula Jackson, Assistant to the City Manager

**Public Participation Opportunities**

Date: 2<sup>nd</sup> and 4<sup>th</sup> Tuesday of each month

Time: 6:00 p.m.

Location: 205 S. Main Street

Farmersville, Texas 75442

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en espanol, favor del llamar al telefono (972) 782-6151.

**The source of drinking water used by the City of Farmersville is Purchased Surface Water.**

**Sources of 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 pickup 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.

**City of Farmersville**

205 S. Main Street  
Farmersville, Texas 75442  
(972) 782-6151

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>.

**Information about Source Water Assessments**

The TCEQ has completed a source Water Assessment for all drinking water systems that own their sources. The report describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system, contact North Texas Municipal Water District (NTMWD) at 972-442-5405.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: <http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=>

Further details about sources and source water assessments are available in Drinking Water Watch at the following URL: <http://dww.tceq.texas.gov/DWW/>

Source Water Name	Type of Water	Report Status	Location
NTMWD	CC FROM TX0430044 NORTH TEXAS MUNICIPAL WATER DISTRICT	SW	A LAKE LAVON

**2019 City of Farmersville – 0430004 - Lead and Copper**

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no know or expected risk to health. ALGs allow for a margin of safety.

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90 <sup>th</sup> Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2019	1.3	1.3	.75	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2019	0	15	1.1	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

**Definitions and Abbreviations**

Definitions	The following tables contain scientific terms and measures, some of which may require explanation.
Avg	Regulatory compliance with some MCLs are based on running annual average of monthly samples
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.
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.
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.
Level 2 Assessment	A Level 2 assessment is a very detailed study of the water system to identify potential and determine (if possible) why a E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
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	The level of a drinking water disinfectant below which there is no known or expected risk to health.

level goal or MRDLG	MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
MFL	Million fibers per liter (a measure of asbestos)
na	Not applicable
mrem	Millirems per year (a measure of radioactivity)
NTU	Nephelometric turbidity units (a measure of turbidity)
pCi/L	Picocuries per liter (a measure of radioactivity)
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
Treatment Technique or TT:	A required process intend to reduce the level of a contaminant in drinking water
ppt	Parts per trillion, or nanograms per liter (ng/L)
ppq	Parts per quadrillion, or picograms per liter (pg/L)

#### 2019 City of Farmersville – 0430004 – Water Quality Test Result

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)*	2019	21	14 -29.4	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2019	31	29.6 – 39.3	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Nitrate (measured as Nitrogen)	2019	.76	0.76 – 0.82	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

#### 2019 City of Farmersville – 0430004 - Disinfectant Residual Table

Disinfectant	Year	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Likely Source of Contamination
Chloramine	2019	2.3	0.5	3.4	4	4	ppm	N	Disinfectant used to treat drinking water for a longer-lasting treatment

#### 2019 Turbidity

Year	Contaminant	Highest Single Measurement	Lowest monthly % of samples Meeting Limits	Turbidity Limits	Unit of Measure	Source of Contaminant
2019	Turbidity	0.51	100	0.3	NTU	Soil Runoff

#### NTMWD – 0430044 – 2019 Regulated Contaminants Detected

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Chloroform	2019	117	50-150	ppb	By-product of drinking water disinfection.
Bromoform	2019	121	50-150	ppb	By-product of drinking water disinfection.
Bromodichloromethane	2019	99	50-150	ppb	By-product of drinking water disinfection.
Dibromochloromethane	2019	104	50-150	ppb	By-product of drinking water disinfection.

**NOTE:** Bromoform, chloroform, dichlorobromomethane, and dibromochloromethane are disinfection by-products. There is no maximum contaminant level for these chemicals at the entry point to distribution

**Secondary and Other Constituents Not Regulated**

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Aluminum	2019	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits.
Calcium	2019	60.7	43.6 - 55.3	ppm	Abundant naturally occurring element.
Chloride	2019	95.3	30.8 - 93.7	ppm	Abundant naturally occurring element; used in water purification; by-product of oil field activity.
Iron	2019	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits; iron or steel water delivery equipment or facilities.
Magnesium	2019	4.47	4.39-4.47	ppm	Abundant naturally occurring element.
Manganese	2019	0.0048	0.0046 - 0.0048	ppm	Abundant naturally occurring element.
Nickel	2019	0.0051	0.0053 - 0.0055	ppm	Erosion of natural deposits.
pH	2019	8.67	7.94 - 8.65	units	Measure of corrosivity of water.
Silver	2019	Levels lower than detect level	0 - 0.000	ppm	Erosion of natural deposits.
Sodium	2019	40.0	39.8-40.0	ppm	Erosion of natural deposits; by-product of oil field activity.
Sulfate	2019	132	34.8 - 132	ppm	Naturally occurring; common industrial by-product; by-product of oil field activity.
Total Alkalinity as CaCO <sub>3</sub>	2019	119	81 - 119	ppm	Naturally occurring soluble mineral salts.
Total Dissolved Solids	2019	534	250 - 534	ppm	Total dissolved mineral constituents in water.
Total Hardness as CaCO <sub>3</sub>	2019	191	114 - 191	ppm	Naturally occurring calcium.
Zinc	2019	Levels lower than detect level	0 - 0	ppm	Moderately abundant naturally occurring element used in the metal industry.

**Violation 1**

The CITY OF FARMERSVILLE water system PWS ID 0430004 has violated the monitoring/reporting requirements set by Texas Commission on Environmental Quality (TCEQ) in Title 30, Texas Administrative Code (30 TAC), Section 290, Subchapter F. Public water systems are required to properly disinfect water before distribution, maintain acceptable disinfection residuals within the distribution system, monitor the disinfectant residual at various locations throughout the distribution system, and report the results of that monitoring to the TCEQ on a quarterly basis. Results of regular monitoring are an indicator of whether or not your drinking water is safe from microbial contamination.

This violation occurred in the monitoring period of the Third Quarter 07/01/2019 – 09/30/2019

**We are taking the following actions to address this issue: THE DISINFECTANT RESIDUALS WERE MONITORED AT THE APPROPERATE TIMES. THE REPORT HOWEVER DID NOT GET MAILED UNTIL DECEMBER 18, 2019 FOR THIS TIME FRAME. THIS WAS AN OVER SITE AND HAS BEEN CORRECTED**