



2022 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, 2022.

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 EPAs Safe Drinking Water Hotline at (800) 426-4791.

For more information regarding this report contact:

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

Or Joshua Rubadue, assistant to the City Manager

Public Participation Opportunities

Date: 4th Thursday of each month

Time: 4:00 p.m.

Location: 205 S. Main Street
Farmersville, Texas 75442

City of Farmersville provides Purchased Surface Water from the North Texas MWD Wylie WTP located in Collin County.

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

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 EPAs 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.

City of Farmersville

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

	<p>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.</p> <p>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).</p> <p>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.</p>
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Definitions and Abbreviations	
Definitions:	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 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)
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 pictograms 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 Source Water
<p>CITY OF FARMERSVILLE purchases water from NORTH TEXAS MWD WYLIE WTP. NORTH TEXAS MWD WYLIE WTP provides purchase surface water from Lake Lavon in Collin County and Lake Texoma in Grayson County.</p> <p>TCEQ completed a Source Water Susceptibility for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the 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 Benjamin L. White, City Manager (972-782-6151) or Joshua Rubadue, assistant to the City Manager.</p> <p>For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://www.tceq.texas.gov/gis/swaview</p> <p>Further details about sources and source water assessments are available in Drinking Water Watch at the following URL: http://dww2.tceq.texas.gov/DWW/</p>

CITY OF FARMERSVILLE-WATER QUALITY DATA FOR YEAR 2022

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90 th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2022	1.3	1.3	0.96	2	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2022	0	15	1.4	0	Ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

2022 City of Farmersville – 0430004 – Water Quality Test Results

Disinfectants and Disinfection By-Products	Collection Date	Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)*	2022	19	12.6-26.2	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)	2022	40	25-51.8	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
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*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

Nitrate (measured as Nitrogen)	2022	0.203	0.203-0.203	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
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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.

Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine	2022	2.09	0.32-3.63	4	4	ppm	N	Water additive used to control microbes

2022 North Texas MWD Wylie WTP – 0430044 Water Quality Data

North Texas MWD Wylie WTP – 0430044 – 2022 Lead and Copper

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90 th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2022	1.3	1.3	0.514	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2022	0	15	1.64	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

North Texas MWD Wylie WTP – 0430044 – 2022 Regulated Contaminants Detected

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Bromate	2022	8	0-4.9	0	10	ppb	N	By-product of drinking water disinfection
Chlorite	2022	0.519	0-0.519	0.8	1	ppm	N	By-product of drinking water disinfection
Haloacetic Acids (HAA5)*	2022	28	19.3-28.2	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)	2022	37	36.2-37	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
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*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 Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2022	0.061	0.06-0.061	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride	2022	0.7	0.278-0.688	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)	2022	0.439	0.158-0.439	10	10	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	Unites	Violation (Y/N)	Likely Source of Contamination
Beta/photon emitters	2022	4.7	4.7-4.7	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	2022	1.5	1.5-1.5	0	5	pCi/L	N	Erosion of Natural Deposits
Synthetic organic contaminates including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Unites	Violation (Y/N)	Likely Source of Contamination
Atrazine	2022	0.12	0.1-0.12	3	3	ppb	N	Runoff from herbicide uses on row crops
North Texas MWD Wylie WTP 043044 - Turbidity*								
	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination				
Highest single measurement	0.4 NTU	1 NTU	N	Soil Runoff				
Lowest Monthly % meeting limit	100%	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.								
City of Farmersville 043004 - Violations								
Chlorine								
Violation Type	Violation Begin	Violation End	Violation Explanation					
Disinfectant Level Quarterly Operating Report (DLQOR)	04/01/2022	06/30/2022	There was a delay in the report being received during this time frame.					