

2025 Annual Drinking Water Quality Report
City of Magnolia
PWS#: 0570005
April 2026

We're pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

The City of Magnolia works around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

Please share this information with anyone who drinks this water (or their guardians), especially those who may not have received the report directly (for example, people in apartments, nursing homes, schools, and businesses).

Contact & Meeting Information

If you have any questions about this report or concerning your water utility, please contact John Wilkinson, Public Works Director, at 601.551.1224 or 601.783.5211. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the first Tuesday of each month at 5:30 PM at City Hall, 175 E. Railroad Ave. N., Magnolia, MS 39652.

Source of Water

Our water source is from wells drawing from the Miocene Series Aquifer. The source water assessment has been completed for our public water system to determine the overall susceptibility of its drinking water supply to identified potential sources of contamination. A report containing detailed information on how the susceptibility determinations were made has been furnished to our public water system and is available for viewing upon request. The wells for the City of Magnolia have received moderate susceptibility rankings to contamination.

Period Covered by Report

We routinely monitor for contaminants in your drinking water according to federal and state laws. This report is based on results of our monitoring period of January 1st to December 31st, 2025. In cases where monitoring wasn't required in 2025, the table reflects the most recent testing done in accordance with the laws, rules, and regulations.

As water travels over the surface of land or underground, it dissolves naturally occurring minerals and, in some cases, radioactive materials and can pick up substances or contaminants from the presence of animals or from human activity; microbial contaminants, such as viruses and bacteria, that 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 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 that limit the amount of certain contaminants in water provided by public water systems. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily indicate that the water poses a health risk.

We are required to monitor your drinking water for specific contaminants on a monthly basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards.

In addition to the contaminants listed in the table, we tested for additional chemicals for which the state and EPA have set standards. We found no detectable levels of those chemicals.

VIOLATIONS

Monitoring And Reporting Of Compliance Data Violations

Significant Deficiencies

During a sanitary survey conducted on 10/14/2022, the Mississippi State Department of Health cited the following significant deficiency(s): FUNCTION AND CONDITION OF TREATMENT FACILITIES

The system is scheduled to complete corrective actions by 11/03/25 using a compliance plan or are within the initial 120 days minimum.

Steps to correct deficiency:

January 31, 2023 – The City of Magnolia applied for funding through the Mississippi Municipality and County Water Infrastructure (MCWI). The grant is a 2 to 1 match grant. The city put up \$428,671.54 from ARPA monies and secured an additional \$835,030.96 for a total amount of \$1,263,702.50. These monies will be for improvements at the Croft WTP and Weathersby WTP. The city has 3 WTP's. I will ask the MCWI-ARPA funding source to reappropriate some of that money to the 3rd WTP, Great Southern to repair the well there if allowed. This project is currently under design.

Not sure of the exact date, but during the 4th quarter of 2022, John Wilkinson, the city Wastewater Operator met with General Pumps (supplier), Micah Bull, contractor with Greenbriar at the Croft WTP to inspect the filters.

June 23, 2023 – Site visit at Croft with WGK, Inc. (Engineer), General Pumps (filter supplier) and John Wilkinson, Wastewater Operator to inspect filters and holding tank.

June 28, 2023 – Site visit at Croft WTP with WGK, Inc., John Wilkinson, and Joel Stephens, contractor to inspect filters and holding tank.

September 30, 2023 – The City of Magnolia applied for an Army Corp 592 match grant for improvements at the Croft WTP which includes repairs to the filters (see attached cost estimates for Phase 1 and Phase 2). Portion of this funding will be for a proposed water main to provide fire flow protection and water to customers on private well water. Phase 2 is for the second half of the proposed water main.

The City is currently working on the application for Delta Regional Authority grant for water system improvements.

The City of Magnolia is actively seeking funding sources, exhausting all options, and working diligently to resolve the water supply and distribution issues.

Our system received a monitoring violation, during January 1, 2025 – December 31, 2025 we didn't complete monitor or test for Nitrates/Nitrites and therefore cannot be sure of the quality of our drinking water during that time.

Lead Educational Statement

Lead can cause serious health problems, especially for pregnant women and your children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Our water system is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact our water system. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure are available at <https://www.epa.gov/safewater/lead>.

Our system has completed the Lead Service Line Inventory, and no lead lines were found. The methods used to make that determination were visual inspections, water operator knowledge and archived records. This inventory report is available for viewing at our office upon request.

FLUORIDE INFORMATION

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", our system is required to report certain results pertaining to fluoridation of our water system. The number of months in the previous calendar year in which average fluoride sample results were within the optimal range of 0.6-1.2 ppm was 0. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 0%. The number of months samples were collected and analyzed in the previous calendar year was 12.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man-made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1.800.426.4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline 1.800.426.4791.

TEST RESULTS								
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants – Salts and metals which can occur naturally in the soil or groundwater or may result from urban stormwater runoff. Industrial or domestic wastewater discharges, oil and gas production, mining, or farming.								
8. Arsenic	N	2025	1.6	.5 – 1.6	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
10. Barium	N	2025	.038	.0171 - .038	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits

14. Copper	N	2021/23*	.2	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride**	N	2025	.137	No Range	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2021/23*	1	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Sodium	N	2025	46.3	11 – 46.3	ppm	20		Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
Disinfection By-Products – Substances formed when disinfectants, like Chlorine, used to treat drinking water react with naturally occurring materials in the water.								
82. TTHM [Total trihalomethanes]	N	2025	0- LRAA	0 – 1.1	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2025	1.7 - RAA	.92 - 2.73	mg/l	0	MDRL = 4	Water additive used to control microbes

* Most recent sample. No sample required for 2025.

** Fluoride level is routinely adjusted to the MS State Dept of Health's recommended level of 0.6 - 1.2 mg/l.

Sodium. EPA recommends that drinking water sodium not exceed 20 milligrams per liter (mg/L). Excess sodium from salt in the diet increases the risk of high blood pressure and cardiovascular disease.

Terms and Abbreviations

In the table you may find unfamiliar terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

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

LSLI: Lead Service Line Inventory

Maximum Contaminant Level (MCL): The "Maximum Allowed" (MCL) is 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 "Goal"(MCLG) is 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 to control microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk of health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Parts per billion (ppb) or micrograms per liter (ug/L): one part by weight of analyte to 1 billion parts by weight of the water sample.

Parts per million (ppm) or Milligrams per liter (mg/l): one part by weight of analyte to 1 million parts by weight of the water sample.

RAA: Running Annual Average