

**2023 Annual Drinking Water Quality Report**  
**Plum Point Water Association**  
**PWS#: 0540032**  
**May 2024**

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.

**Contact & Meeting Information**

If you have any questions about this report or concerning your water utility, please contact Dorothy Ballard 662.578.1953. We want our valued customers to be informed about their water utility. If you want to learn more, please attend the meeting scheduled for second Friday of the month at 6:00 PM at the home of Dorothy Ballard. The annual meeting is the first Saturday in August.

**Source of Water**

Our water source is from the Sparta 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 our system have received a higher susceptibility ranking 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 1<sup>st</sup> to December 31<sup>st</sup>, 2023. In cases where monitoring wasn't required in 2023, 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.

**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.*

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: 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.

## TEST RESULTS

Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measure -ment	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>								
10. Barium	N	2023	.0185	No Range	Ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
14. Copper	N	1/6-2023 7/12-2023	2.5 2.4	2 1	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
17. Lead	N	1/6-2023 7/12-2023	13 20	1 2	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
19. Nitrate (as Nitrogen)	N	2023	.479	No Range	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
<b>Unregulated Contaminants</b>								
Sodium	N	2019*	8800`	No Range	ppb	0	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
<b>Disinfection By-Products</b>								
Chlorine	N	2023	.9	.4 – 1.7	ppm	0	MDRL = 4	Water additive used to control microbes

\* Most recent sample. No sample required for 2023.

### Inorganic Contaminants:

(15) Copper. Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

(18) Lead. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

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 an effort to ensure systems complete all monitoring requirements, MSDH now notifies systems of any missing samples prior to the end of the compliance period.

Our system exceed the action level for Lead & Copper.

### LEAD INFORMATION

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. Our water system 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>. The Mississippi State Department of Health Public Health Laboratory offers lead testing. Please contact 601.576.7582 if you wish to have your water tested.

### VIOLATIONS

5/11/2022-Our system failed to address Significant Deficiencies.

### MONITORING AND REPORTING OF COMPLIANCE DATA VIOLATIONS SIGNIFICANT DEFICIENCIES

During a sanitary survey conducted on 10/22/2021, the Mississippi State Department of Health cited the following significant deficiency(s): Function and Condition of Treatment Facilities & Monthly Operating Reports (MOR)

Corrective Actions: The system is scheduled to complete corrective actions by 3/10/2022 using a compliance plan or are within the initial 120 days minimum. Our system has failed to meet the compliance deadline and is now in enforcement status and must appear before MSDH Enforcement and the state appointed Hearing Officer.

### ENFORCEMENT

#### COMPLIANCE MEETING/ADMINISTRATIVE HEARING

This public water system was required by the MS State Department of Health, Bureau of Public Water Supply to participate in a compliance meeting or administrative hearing in 2022 due to failure to address Significant Deficiencies. Actions this water system has taken to address these issues are: In 2022 the Plum Point Water System was required by the MS State Department of Health, Bureau

of Public Water Supply to address the many issues with our system. The Board immediately started correcting as many of the items that were addressed as we could. We also contacted an engineering firm, Cornerstone Engineering. We have been working with Cornerstone to develop a plan of action to address all issues described in the Corrective Action. We have since been able to secure grants and loan funding to cover the expenses of improvements. The total estimated cost is \$1,100,000. We currently are awaiting bids to arrive by June 30, 2023. We are anticipating the beginning of our project this summer and anticipate it to take approximately 270 days. The project is underway and hopefully this will be resolved soon.

Improvements include an entire revamping of the well system as well as replacing the existing distribution lines and putting in electronic meters. The current well will be replaced with a grouted well that will replace our current out of spec well. Since we had to make an expensive repair to the current well, we asked and were approved to use the existing non compliant well as a non potable water supply for a fire hydrant which will be highly beneficial to our small community.

#### **UNREGULATED CONTAMINANTS**

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulations are warranted.

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.

The Plum Point Water Association 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.