

2023 Annual Drinking Water Quality Report
Beaver Meadow Waterworks Association
PWS#: 0310004
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.

About Our System

2023 in review. In May of 2023 our board of directors voted to increase the water rate from \$18 to \$20 effective July 1, 2023. Late summer/early fall, we applied for ARPA funding in the form of a grant of \$2 million dollars. This grant if awarded would be used to improve our water by merging with another water system. The board members voted to purchase some land on Arley Williams Road for our new office building site. The building should be finished later summer of 2024. Board member Keith Gatlin resigned from the board and Chris Schubert was elected to take his place. Chris has finished up his board training in 2023.

Contact & Meeting Information

If you have any questions about this report or concerning your water utility, please contact Kent Hodges at 601.498.5841. We want our valued customers to be informed about their water utility. If you want to learn more, please attend the meeting scheduled for the second Tuesday of each month at 6:00 PM at the Beaver Meadow Water Office located at 105 N Front Street, Sandersville, MS 39477.

Source of Water

Our water source is from wells drawing from the Cockfield Aquifer. The source water assessment has been completed for our public water system to determine the overall susceptibility of its drinking water supply to identify 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 association have received a lower ranking in terms of susceptibility 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, 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/MRDL | Unit Measurement | MCLG | MCL | Likely Source of Contamination |
| Inorganic Contaminants | | | | | | | | |
| 10. Barium | N | 2022* | .0028 | .0027 - .0028 | ppm | 2 | 2 | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits |
| 13. Chromium | N | 2022* | 1.4 | .9 – 1.4 | ppb | 100 | 100 | Discharge from steel and pulp mills; erosion of natural deposits |
| 14. Copper | N | 2021/23 | .3 | 0 | ppm | 1.3 | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| 16. Fluoride | N | 2022* | .807 | .8 - .807 | ppm | 4 | 4 | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |
| 17. Lead | N | 2021/23 | 2 | 0 | ppb | 0 | AL=15 | Corrosion of household plumbing systems, erosion of natural deposits |
| Unregulated Contaminants | | | | | | | | |
| Sodium | N | 2022* | 214 | 208 - 214 | ppm | 20 | 0 | Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents. |
| Volatile Organic Contaminants | | | | | | | | |
| 56. Carbon tetrachloride | N | 2022* | .686 | .663 - .686 | ppm | 20 | 5 | Discharge from chemical plants and other industrial activities |
| Disinfection By-Products | | | | | | | | |
| 81. HAA5 | N | 2023 | .058 | 42.3 – 74.6 | ppb | 0 | 60 | By-Product of drinking water disinfection. |
| 82. TTHM [Total trihalomethanes] | Y | 2023 | .121 | 84 - 146 | ppb | 0 | 80 | By-product of drinking water chlorination. |
| Chlorine | N | 2023 | 1.3 | .5 – 3.20 | ppm | 0 | MRDL = 4 | Water additive used to control microbes |

* Most recent sample. No sample required for 2023.

Disinfection By-Products:

(81) Haloacetic Acids (HAA5). Some people who drink water containing bromate in excess of the MCL over many years may have an increased risk of cancer

(82) Total Trihalomethanes (TTHMs). Some people who drink water containing Trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

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.

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.

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

Our system exceeded the MCL for Disinfection Byproducts in the all quarter of 2023. The standard for Trihalomethanes (TTHM) is .080 mg/l and for Haloacetic Acids (HAA5) is .060 mg/l. We are working with the MSDH to evaluate the water supply and researching options to correct the problem. We have lowered the disinfectant residual and flushing line regularly. We are working on a merger with another system.

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 on 5/23/2022 due to the concerns with Disinfection By-Product Levels in the drinking water. Actions this water system has taken to address these issues are: lowered the disinfectant residual and flushing lines regularly.

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 Beaver Meadow Waterworks 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.