2023 Annual Drinking Water Quality Report
Mt. Comfort Water Association
PWS#: 070010, 070011, 070017 & 070020
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 Jimmy Barefield at 662.414.6416. 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 7:00 PM at the Mt. Comfort Water Association office located at 209 Center Street, Bruce, MS.

Source of Water
Our water source is from wells drawing from the Gordo Formation & Eutaw 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 Mt. Comfort Water Association have received lower to 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, 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.

Picocuries per liter (pCi/L): picocuries per liter is a measure of the radioactivity in water.

PWS ID # 070010		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
Inorganic Contaminants								
8. Arsenic	N	2022*	2.5	No Range	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
10. Barium	N	2022*	.173	No Range	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2022*	.8	No Range	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2023	.5	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2022*	.13	No Range	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2023	2	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
21. Selenium	N	2022*	2.5	No Range	ppb	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Unregulated Contaminants								
Sodium	N	2021*	163	No Range	ppm	20	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
Disinfection By-Products								
82. TTHM [Total trihalomethanes]	N	2023	0	2.22 – 3.66	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2023	.8	.32– 1.16	mg/l	0	MDRL = 4	Water additive used to control microbes

PWS ID # 070011 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
Microbiological Contaminants								
1. Total Coliform Bacteria	N	September	Positive	1	NA	0	Presence of coliform bacteria in 5% of monthly samples	Naturally present in the environment
Inorganic Contaminants								
8. Arsenic	N	2020*	4.6	4.1 – 4.6	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
10. Barium	N	2020*	.1419	.1359 - .1419	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2020*	1.4	1.1 – 1.4	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2020/22*	.4	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2020*	.136	.135 - .136	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2020/22*	0	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
21. Selenium	N	2020*	4	3.6 - 4	ppb	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Unregulated Contaminants								
Sodium	N	2021*	150	148 - 150	ppm	20	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
Disinfection By-Products								
82. TTHM [Total trihalomethanes]	N	2023	1.15	No Range	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2022	1	.45– 1.25	mg/l	0	MDRL = 4	Water additive used to control microbes

Microbiological Contaminants:
(1) Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system.

During September 2023 we had one sample on our system that tested positive for total coliform. The resamples were clear and show we are meeting drinking water standards.

PWS ID # 070017 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
Inorganic Contaminants								
7. Antimony	N	2022*	.8	No Range	ppb	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
8. Arsenic	N	2022*	4.3	3.9 – 4.3	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
10. Barium	N	2022*	.354	.344 - .354	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
11. Beryllium		2022*	1.1	No Range	ppb	4	4	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
12. Cadmium	N	2022*	.8	No Range	ppb	5	5	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
13. Chromium	N	2022*	1.4	1.3 – 1.4	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2020/22*	.2	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2022*	.143	.141 - .143	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2020/22*	0	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
21. Selenium	N	2022*	9.3	7.8 – 9.3	ppb	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
22. Thallium	N	2022*	.7	No Range	ppb	0.5	2	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories
Unregulated Contaminants								
Sodium	N	2021*	146	111 - 146	ppm	20	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
Disinfection By-Products								
81. HAA5	N	2023	2.98	No Range	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2023	4.52	2.08 – 4.52	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2023	1	.42– 1.78	mg/l	0	MDRL = 4	Water additive used to control microbes

PWS ID # 070020 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
Inorganic Contaminants								
8. Arsenic	N	2022*	2.6	2.5 – 2.6	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
10. Barium	N	2022*	.164	.163 - .164	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2022*	1	.7 – 1	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2020/22*	.2	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2022*	.168	.166 - .168	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2020/22*	1	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Unregulated Contaminants								
Sodium	N	2021*	119	116 - 119	ppm	20	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
Volatile Organic Contaminants								
76. Xylenes	N	2023	.000752	.000735-.000752	ppm	10	10	Discharge from petroleum factories; discharge from chemical factories
Disinfection By-Products								
82. TTHM [Total trihalomethanes]	N	2023	0	4.8 – 4.9	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2023	.9	.13 – 1.29	mg/l	0	MDRL = 4	Water additive used to control microbes

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

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

As you can see by the table, our system had no violations. We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some contaminants have been detected, however the EPA has determined that your water IS SAFE at these levels.

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.

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.

The Mt. Comfort Water Association works around the clock to provide top quality water to every tap. Our system is in the final steps of completing a project to serve areas not previously served as well as upgrading the current system in areas to more adequately provide service to existing customers. 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.