

## 2022 Annual Drinking Water Quality Report

Town of Tunica

PWS#: 0720004

June 2023

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 providing you with information because informed customers are our best allies. Our water source is from wells drawing from the Lower Wilcox 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 the Town of Tunica have received moderate rankings in terms of susceptibility to contamination.

If you have any questions about this report or concerning your water utility, please contact J. Robinson, Water Operator at 662.363.2432. We want our valued customers to be informed about their water utility. If you want to learn more, please join us at any of our regularly scheduled meetings. They are held on the first & third Tuesdays of the month at 3:00 PM at Town Hall.

We routinely monitor for contaminants in your drinking water according to Federal and State laws. This table below lists all of the drinking water contaminants that were detected during the period of January 1<sup>st</sup> thru December 31<sup>st</sup>, 2022. In cases where monitoring wasn't required in 2022, the table reflects the most recent results. 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 amounts 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.

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

*Action Level* - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which 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.

*Level 1 Assessment (LV1A)* - A study of a water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system

*Parts per million (ppm) or Milligrams per liter (mg/l)* - one part per million corresponds to one minute in two years or a single penny in \$10,000.

*Parts per billion (ppb) or Micrograms per liter* - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

**TEST RESULTS**

Contaminate		YEAR	LEVELS	RANGE		VIOL- ATION	MCL	DESCRIPTION
<b>Radioactive Contaminates</b>								
5. Gross Alpha	N	2019	5.1 PCI/L	No Range	PCI/L	N	15	Erosion of natural deposits
6. Combined Uranium	N	2022	<.5	No Range	Ppb	N	30	
6. Radium	N	2019	.87 PCI/L	No Range	PCI/L	N	5	
<b>Lead and Copper – Tested at customer’s taps. Testing is done every 3 years.</b>								
17. Lead	N	2022	.0129	<.0005 - .0129	ppm	N	AL=.01 5	Corrosion of household plumbing systems, erosion of natural deposits
15. Copper	N	2022	.407	.0097 - .407	ppm	N	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
<b>Inorganic Contaminants</b>								
10. Barium	N	2022	.0117	.0068 - .0117	ppm	N	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
11. Arsenic	N	2022	< .0005	No Range	Ppm	N	.004	
12. Cadmium	N	2022	< .0005	No Range	Ppm	N	.0005	
13. Chromium	N	2022	<.0005	No Range	Ppm	N	.1	Discharge from steel and pulp mills; erosion of natural deposits
14. Beryllium, Total	N	2022	<.0005	No Range	Ppm		.004	
16. Fluoride	N	2022	.178	.172 - .178	ppm	N	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
18. Antimony, Total	N	2022	<.0005	No Range	ppm	.006		
19. Cadmium	N	2022	<.0005	No Range	ppm	.004		

20. Selenium	N	2022	<.0025	No Range	ppm	.05		
21.Thallium, Total	N	2022	<.0005	No Range	Ppm	.002		
23. Cyanide	N	2022	<.015	No Range	Ppm	.2		
<b>Nitrates</b>								
Nitrate	N	2022	< .08	No Range	Ppm		10ppm	
Nitrite	N	2022	< .02	No Range	Ppm	N	1ppm	
Nitrate-Nitrite	N	2022	< .1	No Range	Ppm	N	10ppm	
<b>Disinfection By-Products</b>								
Chlorine	N	2022	.90	.31 - 1.57	mg/l	N	MRDL = 4	Water additive used to control microbes
TTHM	N	2022	11.1	No Range	Ppb	N	60ppb	By product of drinking water disinfection
HAA5	N	2022	15.2	No Range	Ppb	N	80ppb	By product of drinking water disinfection

\* Most recent sample. No sample required for 2019

Non-Regulated Contaminants	Results	Limits
Sodium	83000 ppb	250,000 ppb
Sodium	87000 ppb	250,000 ppb
Sodium	81000 ppb	250,000 ppb
Sodium	86000 ppb	250,000 ppb

RTCR Assessment and/or Violation	Required to Report on the CCR
Level 1 Assessment	
Level 2 Assessment	
Level 1 & 2 Assessment	
Treatment Technique (TI ) Violation	
E.coli Detection and/or MCL Violation	

As you can see by the table, our system had no violations during the past year which we are very pleased to say. We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that the EPA has determined that your water IS SAFE at these levels.

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.

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.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring, or manmade. 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 microbial contaminants are available from the Safe Drinking Water Hotline 1.800.426.4791.

The Town of Tunica 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.