#### 2023 Annual Drinking Water Quality Report Pearl River Valley Water Supply District PWS#: 450019, 450024, 610035 & 610036 April 2024

are committed to ensuring the quality of your water. 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

# Contact & Meeting Information

If you have any questions about this report or concerning your water utility, please contact Larry Wilcher at 769.218.7202. 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 third Thursday of the month at 9:30 AM at 115 Madison Landing Circle, Ridgeland, MS.

#### Source of Water

public water system and is available for viewing upon request. The wells for the Pearl River Valley Water Supply District have received contamination. A report containing detailed information on how the susceptibility determinations were made has been furnished to our completed for our public water system to determine the overall susceptibility of its drinking water supply to identify potential sources Our water source is from wells drawing from the Cockfield and Sparta Sand Aquifers. The source water assessment has been lower to moderate rankings in terms of susceptibility to contamination.

## Period Covered by Report

most recent testing done in accordance with the laws, rules, and regulations. 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

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 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, materials and can pick up substances or contaminants from the presence of animals or from human activity; microbial contaminants, As water travels over the surface of land or underground, it dissolves naturally occurring minerals and, in some cases, radioactive does not necessarily indicate that the water poses a health risk. expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants

### Terms and Abbreviations

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

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

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.

known or expected risk to health. MCLGs allow for a margin of safety. Maximum Contaminant Level Goal (MCLG): The "Goal"(MCLG) is the level of a contaminant in drinking water below which there is no

evidence that addition of a disinfectant is necessary to control microbial contaminants Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There ŝ

expected risk of health. Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants 공

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.

Chlorine	82. TTHM [Total trihalomethanes]	81. HAA5	<b>Disinfection By-Products</b>	Sodium	<b>Unregulated Contaminants</b>	17. Lead	16. Fluoride	14. Copper	10. Barium	<b>Inorganic Contaminants</b>	Contaminant	PWS ID # 450019- Main Harbor
Z	Z	Z	n By-I	Z	ed Con	Z	z	z	Z	Contar	Violation Y/N	150019-
2023	2023	2023	roduct	2022*	tamina	2021/23	2022*	2021/23	2022*	ninants	Date Collected	Main l
1.3	4.28	2.85	S	140	ınts		1.05	-	.0093	<b>J</b> 2	Level Detected	Harbor
.95 – 1.6	No Range	No Range		136 - 140		0	.807 – 1.05	0	.00910093		Range of Detects or # of Samples Exceeding MCL/ACL/MRDL	TEST RESULTS
ppm	ppb	ppb		ppm		ppb	ppm	ppm	ppm		Unit Measure- ment	SULTS
0	0	0		20		0	4	<u></u> ယ	2		MCLG	
MRDL = 4	80	60		0		AL=15	4	AL=1.3	2		MCL	
Water additive used to control microbes	By-product of drinking water chlorination.	By-Product of drinking water disinfection.		Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.		Corrosion of household plumbing systems, erosion of natural deposits	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits		Likely Source of Contamination	

Chlorine	82. TTHM [Total trihalomethanes]	81. HAA5	<b>Disinfection By-Products</b>	Sodium .	<b>Unregulated Contaminants</b>	17. Lead	16. Fluoride	14. Copper	10. Barium	<b>Inorganic Contaminants</b>	Contaminant	PWS ID#
Z	z	Z	on By-	z	ted Cor	Z	Z	Z	Z	Conta	Violation Y/N	450024
2023	2023	2023	Produc	2022*	ntamin	2019/21*	2022*	2019/21*	2022*	minant	Date Collected	- Twin
1.1	41.3	28.5	ts	94.6	ants	2	1.08		.0025	S	Level Detected	Harbor
.7 -1.8	No Range	No Range		87.5 – 94.6		0	.546 – 1.08	0	.00240025	-	Range of Detects or # of Samples Exceeding MCL/ACL/MRDL	PWS ID # 450024- Twin Harbor TEST RESULTS
ppm	ppb	ppb		ppm		ppb	ppm	ppm	ppm		Unit Measure- ment	SULTS
0	0	0		20		0	4	 	N		MCLG	
MRDL = 4	80	60		0		AL=15	4	AL=1.3	2		MCL	
Water additive used to control microbes	By-product of drinking water chlorination.	By-Product of drinking water disinfection.		Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.		Corrosion of household plumbing systems, erosion of natural deposits	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits		Likely Source of Contamination	

PWS ID # 610035 – HWY 43	61003	5 – HW	Y 43	TEST RESULTS	SULTS			
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL/MRDL	Unit Measure- ment	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>	: Conta	ıminant	Š					
10. Barium	Z	2022*	.0067	.00280067	ppm	N	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	Z	2022*	1.7	1.6 – 1.7	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	z	2021/23	ယ်	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	Z	2022*	.97	.93197	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	Z	2021/23	N	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
<b>Unregulated Contaminants</b>	ted Co	ntamina	ants					
Sodium	Z	2023	98.9	88.1-98.9	ppm	20	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
<b>Disinfection By-Products</b>	ion By	<b>Produc</b>	ts					
81. HAA5	Z	2023	35.5	32.3 - 35.5	dqq	0	9 09	By-Product of drinking water disinfection.
82. I THM [Total trihalomethanes]	z	2023	49.2	43.9 – 49.2	ррb	.0	80 E	By-product of drinking water chlorination.
Chlorine	Z	2023	-	.72 -1.4	ppm	0	MRDL = 4   V	Water additive used to control microbes

PWS ID #	61003	86 - Pel	ahatch	PWS ID # 610036 - Pelahatchie Bay - TEST RESULTS	T RESU	LTS		
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL/MRDL	Unit Measure- ment	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>	c Conta	minan	S					
10. Barium	Z	2022*	.00283	.0026500285	ppm	2	20	Discharge of drilling wastes; discharge from metal refineries; erosion of notional deposits
14. Copper	Z	2021/23	ຜ່	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	Z	2022*	.482	.354 — .482	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	z	2021/23	2	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
<b>Unregulated Contaminants</b>	ted Co	ntamin	ants					
Sodium	Z	2023	73.6	72.1 – 73.6	ppb	0	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
<b>Disinfection By-Products</b>	ion By-	Produc	cts					
81. HAA5	z	2023	11	10.1 – 11	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	z	2023	26.8	26.5 – 26.8	ppb	0	80	By-product of drinking water chlorination.
Chlorine	Z	2023		.6 -1.4	ppm	0	MRDL = 4	Water additive used to control microbes

- \* Most recent sample. No sample required for 2023.
- \*\* Fluoride level is routinely adjusted to the MS State Dept of Health's recommended level of 0.6 1.2 mg/l.

Unregulated Contaminants:

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

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

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 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 offers lead testing. Please contact 601.576.7582 if you wish to have your water tested. 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 If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead

### FLUORIDE INFORMATION

pertaining to fluoridation of our water system. To comply with the "Regulation Governing Fluoridation of Community Water Supplies", our system is required to report certain results

For System # 450019 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 11. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 92%. The number of months samples were collected and analyzed in the previous

calendar year was 12.

For System # 450024 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 8. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 58%. The number of months samples were collected and analyzed in the previous calendar year was 12.

For System # 610035 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 10. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 83%. The number of months samples were collected and analyzed in the previous calendar year was 12.

within the optimal range of 0.6-1.2 ppm was 11. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 94%. The number of months samples were collected and analyzed in the previous calendar year was 12. For System # 610036 the number of months in the previous calendar year in which average fluoride sample results were

#### /IOLATIONS

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.

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. All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man-made. These

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.

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