2018 Annual Drinking Water Quality Report City of Hernando PWS#: 0170002, 0170009 & 170050 April 2019

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. Our water source is from wells drawing from the Sparta Aguifer.

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 well for the City of Hernando have received moderate susceptibility rankings to contamination.

If you have any questions about this report or concerning your water utility, please contact Neil Waldrop at 662.910.9576. 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 & third Tuesdays of each month at 6:00 PM at the City Hall located at 475 W. Commerce.

We routinely monitor for contaminants in your drinking water-according to Federal and State lews. This table below lists all of the drinking water contaminants that were detected during the period of January 1st to December 31st, 2018. In cases where monitoring wasn't required in 2018, 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 sativities. 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.

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.

Meximum Contaminant Level (MCL) - The "Maximum Allowed" (MCL) is the highest level of a conteminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Conteminent Level Goal (MCLG) - The "Goal" (MCLG) is the level of a conteminant 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.

Meximum 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 contaminents.

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.

Perts 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.

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

PWS # 01'	70002			TEST RESULTS							
Contaminant	nteminent Violation Date Y/N Collecte		Level Range of Delects or Detected # of Samples Exceeding MCL/ACL/MRDL		Unit Measure -ment	MCLG	MCL	Likely Source of Contamination			
Inorganic	Contami	inants									
10. Berium	N	2018	.032	.0319032	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposite			
13. Chromjum	N	2018	1.9	1.8 - 1.9	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits			
14. Copper	N	2016/18	0	0	ppm	1.3	AL=1.3	Corrogion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives			

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19. Nitrate (as Nitrogen)	N	2018	.5	No Range		ppm		10	Runoff from fertilizer use: leaching from septic lanks, sewage; erosion of natural denosits
Disinfecti	on By-		ts					• • • • • • • • • • • • • • • • • • • •	
81. HAA5	N	2018	3	No Range	ppb		0	60	By-Product of drinking water disinfection.
Chlorine	N	. 2018	1.4	.79 1.68	mg/l		0	MRDL = 4	Water addilive used to control microbes

PWS ID#	01700	09			TEST R	ESI	ULT	S				
Contaminant	Violatio Y/N	on Date Collec	-	Level Detecte		nples ng	Mea	Jnit asure- ient	MC	LG	MCL	Likely Source of Conlamination
Radioactiv	ve Con	tamina	nts									
6. Radium 226 Radium 228	N	2018		.42 .47	No Range		pC	ijĹ		0		5 Erosion of natural deposits
Inorganic	Contai	minants	S									
10. Barium	N	2018		.0302	No Range	Range ppm			2		2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2018		2	No Range		ppb			100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2016/18		0	0		ppm			1.3	AL≃1.3	
16. Fluoride**	N	2018		1.13	No Range		ppm		4		. 4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2016/18		1	0		ppb		¥	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
19. Nitrate (as Nitrogen)	N	2018		1.03	No Range		ppm			10	10	
Disinfection	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			····					····			
81. HAA5	N	2018		6	No Range		ррь		0	0 6		disinfection.
Chlorine 	N	2018		1.3	.98 – 1.66		mg/i		0	0 MDRL=4		Water additive used to control microbes
Unregulate	d Cont	tamina	nts									
Bromide	N	2018	85.8	5 4	0.6 – 85.5	UG	S/L				i c	Naturally-occurring element found in the earth's crust and at low concentrations in seawater, and in some surface and ground water; cobaltous chloride was formerly used n medicines and as a gemicide
Manganese	И	2018	1.1	N	lo Range60	UG	S/L				n fi d	Naturally-occurring element; commercially available in combination with other elements and ninerals; used in steel production, ertilizer, batteries and fireworke; Irinking water and westewater reatment chemicals; essential utriant

PWS # 017	0050			TEST RESULTS							
Conteminant	Violation Y/N			Range of Detects or # of Samples Exceeding MCL/ACL/MRDL	Unit Measure -ment	MCLG	MCL	Likely Source of Contamination			
Inorganic (Contami	inants									
19. Nitrate (as Nitrogen)	N	2018	.24	No Range	ppm	10	10	Runoff from fertilizer use; leaching from septic lanks, sewage; erosion of natural deposits			
Disinfection	n By-Pr	oducts									

Jun. 27. 201	9 11:05	5AM N	ls Rural	Water Assoc			No. 9585 P. 3
Chlòrine	N	2018	1.2	1.05-1.52	mg/l	0	MRDL = 4 Water additive used to control

Most recent sample. No sample regulred for 2018.

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.

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 Holline 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.

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", our system # 0170009 is required to report certain results pertaining to fluoridation of our water system. 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 12. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 100%.

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 isasonably 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 City of Hernando 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.