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MISSISSIPPI STATE DEPARTMENT OF HEALTH

2020 CERTIFICATION

Consumer Confidence Report (CCR)

CITY OF GRENADA
Public Water System Name

0220003, 0220004, 0220005, 0220036, 0220062, 0220007
List PWS ID #s for all Community Water Systems included in this CCR

The Federal Safe Drinking Water Act (SDWA) requires each Community Public Water System (PWS) to develop and distribute a Consumer Confidence Report (CCR) to its customers each year. Depending on the population served by the PWS, this CCR must be mailed or delivered to the customers, published in a newspaper of local circulation, or provided to the customers upon request. Make sure you follow the proper procedures when distributing the CCR.

CCR DISTRIBUTION *(Check all boxes that apply.)*

INDIRECT DELIVERY METHODS *(Attach copy of publication, water bill or other)*	DATE ISSUED
☐ Advertisement in local paper *(Attach copy of advertisement)*	
☑ On water bills *(Attach copy of bill)*	6-3-21
☐ Email message *(Email the message to the address below)*	
☐ Other _____	
DIRECT DELIVERY METHOD *(Attach copy of publication, water bill or other)*	**DATE ISSUED**
☑ Distributed via U. S. Postal Mail	6-3-21
☐ Distributed via E-Mail as a URL *(Provide Direct URL):* _____	
☐ Distributed via E-Mail as an attachment	
☐ Distributed via E-Mail as text within the body of email message	
☐ Published in local newspaper (attach copy of published CCR or proof of publication)	
☑ Posted in public places (attach list of locations) WATER BILLING OFFICE, WATER DEPARTMENT	6-3-21
☐ Posted online at the following address *(Provide Direct URL):* _____	

CERTIFICATION

I hereby certify that the CCR has been distributed to the customers of this public water system in the form and manner identified above and that I used distribution methods allowed by the SDWA. I further certify that the information included in this CCR is true and correct and is consistent with the water quality monitoring data provided to the PWS officials by the MSDH, Bureau of Public Water Supply.

Fred P Chapman	D-OPERATOR 004869	6-3-21
Name	Title	Date

SUBMISSION OPTIONS *(Select one method ONLY)*

You must email, fax (not preferred), or mail a copy of the CCR and Certification to the MSDH.

Mail: (U.S. Postal Service)
MSDH, Bureau of Public Water Supply
P.O. Box 1700
Jackson, MS 39215

Email: water.reports@msdh.ms.gov

Fax: (601) 576-7800 (NOT PREFERRED)

CCR DEADLINE TO MSDH & CUSTOMERS: BY JULY 1, 2021

2020 Annual Drinking Water Quality Report
City of Grenada
PWS#: 220003, 220004, 220005, 220007, 220036 & 220062
April 2021

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.

If you have any questions about this report or concerning your water utility, please contact Fred Chapman at 662.227.3415. 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 second Monday of the month at 6:00 PM at City Hall.

Our water source is from wells drawing from the Meridian Upper Wilcox, Middle Wilcox and Lower Wilcox Aquifers. 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 City of Grenada have received lower to higher susceptibility rankings to contamination.

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 1st to December 31st , 2020. In cases where monitoring wasn't required in 2020, 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 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.

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 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.

PWS ID#:0220003				**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	April	Positive	1	NA	0	presence of coliform bacteria in 5% of monthly samples	Naturally present in the environment

Radioactive Contaminants

6. Radium 226 Radium 228	N	2019*	.80 .52	.57 - .80 .49 - .52	pCi/L	0	5	Erosion of natural deposits

Inorganic Contaminants

10. Barium	N	2018*	.1712	.0749 - .1712	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2018*	.9	No Range	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2016/18*	.4	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2018*	.771	.134 - .771	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2016/18*	3	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Sodium	N	2019*	96000	36000 - 96000	PPB	0	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.

Disinfection By-Products

81. HAA5	N	2020	2	No Range	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2020	0	No Range	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2020	1.2	0 – 1.9	ppm	0	MDRL = 4	Water additive used to control microbes

PWS ID#: 220004 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								
10. Barium	N	2018*	.0189	.0188- .0189	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2018*	2.3	2.1 – 2.3	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2017/19*	.1	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2018*	.233	.231 – 2.33	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2017/19*	6	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Sodium	N	2019*	79000	51000 - 79000	PPB	0	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
Disinfection By-Products								
81. HAA5	N	2020	20	No Range	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM	N	2019*	3.4	No Range	ppb	0	80	By-product of drinking water

[Total trihalomethanes]								chlorination.
Chlorine	N	2020	1.54	1– 1.9	ppm	0	MDRL = 4	Water additive used to control microbes

PWS ID#: 220005 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								
10. Barium	N	2018*	.0314	.0299 - .0314	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
14. Copper	N	2017/19*	.1	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
17. Lead	N	2017/19*	1	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Sodium	N	2019*	6600	6500 - 6600	PPB	0	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
Disinfection By-Products								
81. HAA5	N	2020	8	No Range	ppb	0	60	By-Product of drinking water disinfection.
Chlorine	N	2020	1.4	.6 – 1.7	ppm	0	MDRL = 4	Water additive used to control microbes

PWS ID#: 220007 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								
10. Barium	N	2018*	.0323	.0137 - .0323	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2018*	.7	No Range	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2017/19*	.1	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2018*	.1.16	.858 – 1.16	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2017/19*	2	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Sodium	N	2019*	140000	98000 - 140000	PPB	0	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
Disinfection By-Products								
81. HAA5	N	2020	11	No Range	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2020	21.5	No Range	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2020	1.4	.9– 1.7	ppm	0	MDRL = 4	Water additive used to control microbes

PWS ID#: 220036 TEST RESULTS

Contaminant	Violation	Date	Level	Range of Detects or	Unit	MCLG	MCL	Likely Source of Contamination

	Y/N	Collected	Detected	# of Samples Exceeding MCL/ACL	Measure -ment			
Inorganic Contaminants								
10. Barium	N	2018*	.0204	.0196 - .0204	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2018*	2.9	No Range	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2017/19*	.8	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2018*	1.39	1.37 – 1.39	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2017/19*	2	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Sodium	N	2019*	140000	No Range	PPB	0	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
Disinfection By-Products								
81. HAA5	N	2019*	5	No Range	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2020	43	No Range	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2020	1.6	.9– 2	ppm	0	MDRL = 4	Water additive used to control microbes

PWS ID#: 220062				**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								
10. Barium	N	2018*	.0106	.0102 - .0106	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2018*	1	.6 – 1	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2019*	.3	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2018*	.134	.133 - .134	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2019*	2	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Sodium	N	2019*	85000	82000 - 85000	PPB	0	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
Disinfection By-Products								
81. HAA5	N	2017*	5	No Range	ppb	0	60	By-Product of drinking water disinfection.
Chlorine	N	2020	1.4	.8 – 1.7	ppm	0	MDRL = 4	Water additive used to control microbes

** Most recent sample. No sample required for 2020.*
Microbiological Contaminants:

(1) Total Coliform/E Coli. 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.

Inorganic Contaminants:

(15) Copper. Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

(18) Lead. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

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. During April 2020 on System # 220003, we had one sample that tested positive for total coliform. The resamples were clear and showed our water meets drinking water standards. On System # 220062, we did not monitor for Lead & Copper and therefore cannot be sure of the quality of our drinking water during that time. We were required to take 10 samples every year and took 0. The required Lead & Copper samples will be collected before October 1, 2021 and will report the results to homeowners.

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.

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", our systems are 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 as follows. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was as follows.

System #	# of Months	Percentage
220003	9	71%
220004	6	59%
220005	10	100%
220007	8	87%
220036	7	70%
220062	9	86%

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 City of Grenada 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.

City of Grenada

116 Main St.
Grenada, Mississippi 38901

FREDDIE CHAPMAN
3016 JACKSON AVE EXT
GRENADA, MS 38901

DAYS OF OPERATION MON-FRI 8:00 AM- 5:00 PM
PHONE: 662-227-3400
FAX: 662-226-0561
AFTER HOURS/EMERGENCIES: 662-227-3415
QUESTIONS: WATERBILLING@CITYOFGRENADA.MS

ACCOUNT NUMBER	00301730
BILLING DATE	05/26/21
PREVIOUS BILL	$154.63
PAYMENTS	-$154.63
BALANCE FORWARD	$0.00
CURRENT CHARGES	$72.61
TOTAL DUE	$72.61
DATE DUE	06/10/21
AMOUNT DUE IF PAID AFTER DUE DATE Includes $5.00 Penalty	$77.61
CUT OFF DATE Account subject to disconnection and $35 Admin Fee	06/15/2021

SERVICE ADDRES: 3016 JACKSON AVE EXT

SERVICE	PREVIOUS READING	CURRENT READING	READ DATE	CONSUMPTION
WATER	703890	711400	05/18/2021	7510

DETAIL OF CHARGES

SERVICE PERIOD 04/20 - 05/18

SERVICE DESCRIPTION	AMOUNT
WATER	$36.18
SEWER	$19.43
GARBAGE	$17.00
TOTAL CURRENT CHARGES	$72.61

IMPORTANT INFORMATION

The City of Grenada now accepts debit and credit cards.
You can also pay online @ www.cityofgrenada.net
Or by phone at 1 (833) 202-4719

Visit us on the web at -- www.cityofgrenada.ms

PLEASE DETACH AND RETURN BOTTOM PORTION IF PAYING BY MAIL. PLEASE DO NOT STAPLE OR FOLD. PLEASE WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK. TO BETTER ASSIST YOU, PLEASE BRING YOUR COMPLETE BILL WHEN PAYING IN PERSON.

☐ Check here for E-Billing Form on Reverse side

116 Main St.
Grenada, Mississippi 38901

RETURN SERVICE REQUESTED

2808 1 AV 0.398

Freddie Chapman
3016 Jackson Ave Ext
Grenada MS 38901-9325

BILL DATE	ACCOUNT NUMBER	DATE DUE
05/26/21	00301730	06/10/21
PREVIOUS BALANCE	BALANCE FORWARD	TOTAL DUE
$154.63	$0.00	$72.61
AMOUNT DUE IF PAID AFTER DUE DATE Includes $5.00 Penalty		$77.61
CUT OFF DATE Account subject to disconnection and $35 Admin Fee		06/15/2021

Amount Enclosed $ _____

Please remit and make checks in US funds payable to:

CITY OF GRENADA - WATER DEPT
116 MAIN ST
GRENADA MS 38901-2622