

2019 CERTIFICATION

Consumer Confidence Report (CCR)

ouffee Water Association
Public Water System Name

0510005

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. **You must email, fax (but not preferred) or mail, a copy of the CCR and Certification to the MSDH.** Please check all boxes that apply.

Customers were informed of availability of CCR by: *(Attach copy of publication, water bill or other)*

- Advertisement in local paper *(Attach copy of advertisement)*
- On water bills *(Attach copy of bill)*
- Email message *(Email the message to the address below)*
- Other posted in local store

Date(s) customers were informed: 7 / 15 / 2020 7 / 22 / 2020 / / 2020

CCR was distributed by U.S. Postal Service or other direct delivery. Must specify other direct delivery methods used _____

Date Mailed/Distributed: / /

CCR was distributed by Email *(Email MSDH a copy)*

Date Emailed: / / 2020

- As a URL _____ *(Provide Direct URL)*
- As an attachment
- As text within the body of the email message

CCR was published in local newspaper. *(Attach copy of published CCR or proof of publication)*

Name of Newspaper: The Newton Appeal

Date Published: 7 / 15 / 2020

CCR was posted in public places. *(Attach list of locations)*

Date Posted: / / 2020

CCR was posted on a publicly accessible internet site 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 Mississippi State Department of Health, Bureau of Public Water Supply

Wayne Rigdon *office manager*

7-8-2020

Name/Title *(Board President, Mayor, Owner, Admin. Contact, etc.)*

Date

Submission options *(Select one method ONLY)*

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

Email: _____

Fax: (601) 576 - 7800

****Not a preferred method due to poor clarity****

CCR Docket # _____

2019 Annual Drinking Water Quality Report
 Duffee Water Association
 PWS#: 0510005
 July 2020

RECEIVED WATER SUPPLY
 2020 JUL -1 AM 7:39

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 Meridian Upper 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 Duffee Water Association have received lower susceptibility rankings to contamination.

If you have any questions about this report or concerning your water utility, please contact Joe Alexander at 601.479.7056. 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 Thursday of each month at 6:30 PM at the Duffee Water Association office.

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, 2019. In cases where monitoring wasn't required in 2019, 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.

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	2019	.0521	No Range	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2019	71.8	No Range	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2015/17*	.4	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
17. Lead	N	2015/17*	1	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Sodium	N	2019	11000	No Range	PPB	0	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.

Disinfection By-Products

81. HAA5	N	2019	6	No Range	ppb	0	60	By-Product of drinking water disinfection.
Chlorine	N	2019	1.1	.9 – 1.7	mg/l	0	MRDL = 4	Water additive used to control microbes

* Most recent sample. No sample required for 2019.

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 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 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 Duffee Water Association 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.

0510005

2020 JUL 31 AM 9:21

PROOF OF PUBLICATION

STATE OF MISSISSIPPI
COUNTY OF NEWTON

Personally came before me the undersigned authority, in and for the County and State aforesaid
. who being by me duly sworn, states on oath that he is the Publisher of *The Newton County Appeal*, a newspaper published in Newton County, Mississippi. A copy of which is hereto attached, has
been made in said paper 1 times consecutively, to-wit:

For: Differmaker
ASSOCIATION

Vol. No. <u>III</u>	No. <u>56</u>	Date <u>7/31</u> , 20 <u>20</u>
Vol. No. <u>III</u>	No. <u>51</u>	Date <u>7/31</u> , 20 <u>20</u>
Vol. No. _____	No. _____	Date _____, 20 _____
Vol. No. _____	No. _____	Date _____, 20 _____
Vol. No. _____	No. _____	Date _____, 20 _____

Publisher Signature: _____

Sworn to and subscribed before me,

this 22nd day of July, 20 20
Heather Collins



Paste clipping here

3834d
17544d3

Publication: \$ 427.50
 Proof: \$ 3.00
 TOTAL: \$ 430.50

**2019 ANNUAL DRINKING WATER
QUALITY REPORT
DUFFEE WATER ASSOCIATION
PWS#:0510005
JULY 2020**

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PROOF OF PUBLICATION

STATE OF MISSISSIPPI COUNTY OF NEWTON

Personally came before me the undersigned authority, in and for the County and State aforesaid, who being by me duly sworn, states on oath that he is the Publisher of *The Newton County Appeal*, a newspaper published in Newton County, Mississippi. A copy of which is hereto attached, has been made in said paper 2 times consecutively, to-wit:

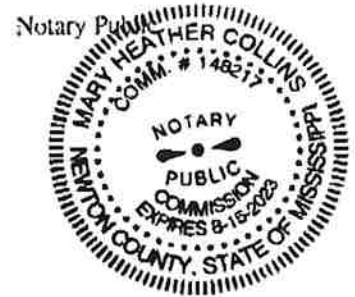
For: Duffee Water Association

Vol. No. <u>111</u>	No. <u>37</u>	Date <u>4/15</u> , 20 <u>20</u>
Vol. No. <u>111</u>	No. <u>38</u>	Date <u>4/22</u> , 20 <u>20</u>
Vol. No. _____	No. _____	Date _____, 20 _____
Vol. No. _____	No. _____	Date _____, 20 _____
Vol. No. _____	No. _____	Date _____, 20 _____

Publisher Signature: Buddy

Sworn to and subscribed before me,

this 22nd day of April, 20 20
Heather Collins



Paste clipping here

5 x 9.5 Ad	
Publication:	\$ <u>812.25</u>
Proof:	\$ <u>3.00</u>
TOTAL:	\$ <u>815.25</u>

2019 CERTIFICATION

(Consumer Confidence Report (CCR))

Duffee Water Association
Public Water System Name

0510095

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Date Published: 1/2020

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(Provide Direct URL)

VERIFICATION
I certify that the CCR has been distributed to the customers of this public water system in the form and manner identified 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 Mississippi State Department of Health, Bureau of Public Water Supply.

Gene Ragsdale Office Manager
Title (Board President, Mayor, Owner, Admin. Contact, etc.)

4-6-2020

Date

Submission options (Select one method ONLY)

Email: waterreports@msdh.ms.gov

Fax: (601) 576-7800

Not a preferred method due to poor clarity

CCR Deadline to MSDH & Customers by July 1, 2020!

MSDH BUREAU OF PUBLIC WATER SUPPLY MAXIMUM RESIDUAL DISINFECTANT LEVEL (MRDL) REPORT - 2019

MS0510008 - DUFFEE WATER ASSOCIATION

DISINFECTANT: CHLORINE (ppm) RAA MRDL: 4.0 MG/L PWS TYPE: C

COMPLIANCE PERIOD	MP LOW RES	MP HIGH RES	MP AVG	QTR RAA	# SAMPLES REQUIRED	# SAMPLES TAKEN
W 2018	0.30 MG/L	1.00 MG/L	1.00 MG/L		2	2
S 2018	1.00 MG/L	4.70 MG/L	1.70 MG/L	1.10 MG/L	2	2
AR 2018	1.30 MG/L	1.30 MG/L	1.30 MG/L		2	2
JK 2018	2.30 MG/L	1.20 MG/L	1.20 MG/L		2	2
AV 2018	1.30 MG/L	1.10 MG/L	1.10 MG/L	1.10 MG/L	2	2
JL 2018	0.80 MG/L	1.10 MG/L	1.10 MG/L		2	2
JD 2018	1.00 MG/L	1.00 MG/L	1.00 MG/L		2	2
JP 2018	1.10 MG/L	1.10 MG/L	1.10 MG/L	1.10 MG/L	2	2
AP 2019	0.80 MG/L	1.10 MG/L	1.10 MG/L		2	2
CT 2019	1.00 MG/L	1.10 MG/L	1.10 MG/L		2	2
RY 2019	1.10 MG/L	1.10 MG/L	1.10 MG/L	1.10 MG/L	2	2
CC 2019	1.10 MG/L	1.10 MG/L	1.10 MG/L	1.10 MG/L	2	2

MRDL Range: 0.80 MG/L to 1.70 MG/L. (This range should be reported on your CCR in the "Range" field)

Highest QTR RAA: 1.10 MG/L. (This value should populate the field "Your Water" on your CCR)

RAA - Running Annual Average
QTR - Quarterly
AVG - Average
RES - Residual
MP - Monitoring Period

Generated: 2020-03-03

MSDH BUREAU OF PUBLIC WATER SUPPLY SAMPLE RESULTS

PWS ID	PWS NAME	COUNTY	SAMPLE POINT	COMPLIANCE	COLLECTOR LAB	WORKORDER LAB ID	PURPOSE	J.ALEXANDER MSDH LAB	SAMPLE TYPE COLLECTED	RESERVED	COMPOSITE
0510005	DUFFEE WATER ASSOCIATION	NEWTON	TR001	YES	J.ALEXANDER MSDH LAB	181017-004CN	RT		RESERVED		COMPOSITE

LOCATION

ID	ANALYTE NAME	METHOD	RESULT	MCL	ANALYST
1024	CYANIDE	001090201X	< 0.015 ppm	0.2 ppm	RC

Comments: 3Y

MSDH BUREAU OF PUBLIC WATER SUPPLY SAMPLE RESULTS

PWS ID	PWS NAME	COUNTY	SAMPLE POINT	COMPLIANCE	COLLECTOR LAB	WORKORDER LAB ID	PURPOSE	J.ALEXANDER MSDH LAB <th>SAMPLE TYPE COLLECTED</th> <th>RESERVED</th> <th>COMPOSITE</th>	SAMPLE TYPE COLLECTED	RESERVED	COMPOSITE
0510005	DUFFEE WATER ASSOCIATION	NEWTON	TR1000	YES	J.ALEXANDER MSDH LAB	180811-0101A	RT		RESERVED		COMPOSITE

LOCATION

ID	ANALYTE NAME	METHOD	RESULT	MCL	ANALYST
2468	TOTAL HALOACETIC ACIDS (THAA)		0.0 ppm		

Comments: 3C

MSDH BUREAU OF PUBLIC WATER SUPPLY SAMPLE RESULTS

PWS ID	PWS NAME	COUNTY	SAMPLE POINT	COMPLIANCE	COLLECTOR LAB	WORKORDER LAB ID	PURPOSE	J.ALEXANDER MSDH LAB <th>SAMPLE TYPE COLLECTED</th> <th>RESERVED</th> <th>COMPOSITE</th>	SAMPLE TYPE COLLECTED	RESERVED	COMPOSITE
0510005	DUFFEE WATER ASSOCIATION	NEWTON	TR1000	YES	J.ALEXANDER MSDH LAB	180811-0111A	RT		RESERVED		COMPOSITE

LOCATION

ID	ANALYTE NAME	METHOD	RESULT	MCL	ANALYST
2495	TOTAL HALOACETIC ACIDS (THAA)		0.0 ppm		

Comments: 3C

MSDH BUREAU OF PUBLIC WATER SUPPLY SAMPLE RESULTS

PWS ID	PWS NAME	COUNTY	SAMPLE POINT	COMPLIANCE	COLLECTOR LAB	WORKORDER LAB ID	PURPOSE	J.ALEXANDER MSDH LAB <th>SAMPLE TYPE COLLECTED</th> <th>RESERVED</th> <th>COMPOSITE</th>	SAMPLE TYPE COLLECTED	RESERVED	COMPOSITE
0510009	DUFFEE WATER ASSOCIATION	NEWTON	TR001	YES	J.ALEXANDER MSDH LAB	180205-0021N	RT		RESERVED		COMPOSITE

LOCATION

ID	ANALYTE NAME	METHOD	RESULT	MCL	ANALYST
1074	ANTHRACENE, TOTAL	200.8	< 0.005 ppm	0.005 ppm	DP
1005	ARSENIC	200.8	< 0.005 ppm	0.10 ppm	DP
1010	BARIUM	200.8	0.021 ppm	2 ppm	DP
1015	BERYLLIUM, TOTAL	200.8	< 0.005 ppm	0.004 ppm	DP
1016	CADMIUM	200.8	< 0.005 ppm	0.01 ppm	DP
1020	CHROMIUM	200.8	< 0.1 ppm	4 ppm	MS
1025	FLUORIDE	200.8	< 0.005 ppm	0.005 ppm	DC
1026	MERCURY	200.8	< 0.005 ppm	0.08 ppm	DP
1045	SELENIUM	200.8	< 0.005 ppm	0.02 ppm	DP
1055	THALIAM TOTAL	200.8	< 0.005 ppm		DP

Comments: 3Y

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0510008	DUFFEE WATER ASSOCIATION	NEWTON	TR001	YES	J.ALEXANDER MSDH LAB	181121-0081N	RT		RESERVED		COMPOSITE

LOCATION

ID	ANALYTE NAME	METHOD	RESULT	MCL	ANALYST
1040	NITRATE	001010010E	< 0.08 ppm	10 ppm	MS
1041	NITRITE	001010010C	< 0.02 ppm	1 ppm	MS
1038	NITRATE-NITRITE	001010010C	< 0.1 ppm	10 ppm	MS

Comments: 3Y