

Rec'd 7/1/19

2018 CERTIFICATION Consumer Confidence Report (CCR)

South Twin Lakes & City of Horn Lake

Public Water System Name
170025 & 170022

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 _____

Date(s) customers were informed: / /2019 / /2019 / /2019

- CCR was distributed by U.S. Postal Service or other direct delivery. Must specify other direct delivery methods used USPS Marketing Mail Direct by Franklin Press, Inc.

Date Mailed/Distributed: 06 /21 /2019

- CCR was distributed by Email *(Email MSDH a copy)* Date Emailed: / /2019
 - As a URL _____ *(Provide Direct URL)*
 - As an attachment
 - As text within the body of the email message

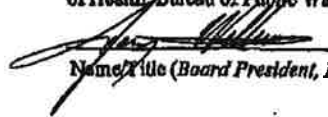
- CCR was published in local newspaper. *(Attach copy of published CCR or proof of publication)*
Name of Newspaper: _____
Date Published: / /

- CCR was posted in public places. *(Attach list of locations)* Date Posted: / /2019

- 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

 Assistant Public Works Director
Name/Title (Board President, Mayor, Owner, Admin. Contact, etc.)

06/25/2019
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: water.reports@msdh.ms.gov
Fax: (601) 376-7800
****Not a preferred method due to poor clarity****

CCR Deadline to MSDH & Customers by July 1, 2019!

2018 Annual Water Quality Report South Twin Lakes PWS# 170025



We are pleased to present to you this year's Annual Water Quality Report. We want to keep you informed about the quality water and services we deliver to you everyday. Our goal is to provide you with a safe and dependable supply of drinking water.

Horn Lake Utility and Sanitation Department
3101 Goodman Road West
Horn Lake, MS 38637

South Twin Lakes Consumer Confidence

Is my water safe?

Last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and state drinking water health standards. The City of Horn Lake vigilantly safeguards the water supplies and once again we are proud to report that our system has not violated a maximum contaminant level or any other water quality standard.

Where does my water come from?
In 2018 our water department distributed 33,752,880 gallons of water to our customers. Our water is groundwater pumped from a natural underground aquifer, the Sparta Aquifer. The water is drawn by wells.

Do I need to take special precautions?

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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

Source water assessment and its availability

Source Water Assessment Program was conducted by the Department of Environmental Quality under contract from the Mississippi Department of Health. Some water was sourced from 170022 (The City of Horn Lake). For information on this source, please contact The City of Horn Lake, Jay Williams, Interim Director of Operations, at 662-342-7099 or by writing to The City of Horn Lake in c/o of Utility and Sanitation Department, 3101 Goodman Road West, Horn Lake, MS 38637. The results of the report are available at: <http://hornsouthwater.doe.ms.gov/swar/reports/report.aspx?id=0170022>

The susceptibility assessment ranking for each well is:

-PWS ID: 170025, Source ID: 1, Susceptibility: Higher

Conservation Tips

- Repair household leaks.
- Use water saving shower heads, faucets, toilets and appliances.
- Wash only full loads of clothes or dishes.

Additional Information for Lead

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. The City of Horn Lake 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 for \$10 per sample. Please contact 601.576.7582 if you wish to have your water tested.

Why are there contaminants in my drinking water?

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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791). The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting 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 stormwater 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 stormwater 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, urban stormwater runoff, 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. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

*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 5. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 71%.

Contact Us

If you have any questions about this report or concerning your water utility, please contact Jay Williams, Interim Director of Operations, at 662-342-7099, or by writing to the following address: City of Horn Lake in c/o of Utility and Sanitation Department, 3101 Goodman Road West, Horn Lake, MS 38637. If you want to learn more, please attend any of our regularly scheduled meetings on the 1st and 3rd Tuesdays of each month, at 6:00 P.M., in City Hall at 3101 Goodman Road West.

Water Quality Data Table

The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Contaminants	MCLG	MCL	Your Water	Range		Sample Date	Violation	Typical Source
	or MRDLG	TT, or MRDL		Low	High			
Inorganic Contaminants								
Cyanide [as Free Cn] (ppb)	200	200	< 15	< 15	< 15	2014	No	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Antimony (ppb)	6	6	< 0.50	< 0.50	< 0.50	2015	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; test addition.
Arsenic (ppb)	0	10	< 0.50	< 0.50	< 0.50	2015	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium (ppm)	2	2	0.018	0.018	0.018	2015	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Beryllium (ppb)	4	4	< 0.5	< 0.5	< 0.5	2015	No	Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries.
Cadmium (ppb)	5	5	< 0.5	< 0.5	< 0.5	2015	No	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; runoff from waste batteries and paints.
Chromium (ppb)	100	100	< 0.8	< 0.8	< 0.8	2015	No	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride (ppm)*	4	4	< 0.1	< 0.1	< 0.1	2015	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Mercury [Inorganic] (ppb)	2	2	< 0.5	< 0.5	< 0.5	2015	No	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland.
Selenium (ppb)	50	50	< 2.5	< 2.5	< 2.5	2015	No	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Thallium (ppb)	2	2	< 0.5	< 0.5	< 0.5	2015	No	Discharge from electronics, glass, and leaching from ore-processing sites; drug factories.
Nitrate [measured as Nitrogen] (ppm)	10	10	0.35	< 0.08	0.35	2017	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite [measured as Nitrogen] (ppm)	1	1	< 0.02	< 0.02	< 0.02	2017	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Copper (ppm)	1.3	1.3=AL	0.2	All sites below AL		2016	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.
Lead (ppb)	0	15=AL	1.0	All sites below AL		2016	No	Corrosion of household plumbing systems; Erosion of natural deposits.
Chlorine ² (ppm)	MRDLG = 4	MRDL=4	1.20	0.90	1.30	2018	No	Water additive used to control microbes.
Haloacetic Acids (HAA5) (ppb)	NA	60	10.0 (HAA5)	10.0	10.0	2017	No	Byproduct of drinking water chlorination.
Total Trihalo-Methane (ppb)	0	80	7.02 (TTHM)	5.99	7.02	2017	No	Byproduct of drinking water chlorination.



Term	Definition
ppm	ppm: parts per million, or milligrams per liter (mg/L).
ppb	ppb: parts per billion, or micrograms per liter (µg/L).
NA	NA: not applicable.
ND	ND: Not detected.
NR	NR: Monitoring not required but recommended.
Important Drinking Water Definitions	
Term	Definition
MCLG	MCLG: Maximum Contaminant Level Goal: 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.
MCL	MCL: Maximum Contaminant Level: 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.
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variance and Exemption	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	Maximum residual disinfection level goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
MNR	MNR: Monitored, Not Regulated.
MRDL	Maximum Residual Disinfection Level: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of contaminants.
MPL	MPL: State Assigned Maximum Permissible Level.

Postage Statement—USPS Marketing Mail

Transaction Number: 201917214572031 M1		CAPS Transaction Number:		Postage Statement Number: 344829273		
Mailing Group	Mailing Group ID 243424619			Mailing Job Number 00014821		Open Date 06-21-2019
	Preparer FRANKLIN PRESS, INC			Origin Mail.dat		Close Date
	Job Description 10001-135378 Inkjet Only - FP					
Mailer	Permit Holder's Name and Address and Email Address, If Any NEEL-SCHAFFER 5740 GETWELL RD BLDG 2 SOUTHAVEN, MS 38672-7361 Contact Name: JANA LUNSFORD (662)890-6404		Name and Address of Mailing Agent (If other than permit holder) FRANKLIN PRESS, INC 1391 HIGHLAND RD IMPB BATON ROUGE, LA 70802-7520		Name and Address of Individual or Organization for Which Mailing is Prepared (If other than permit holder) NEEL SCHAFFER 5740 GETWELL RD BLDG 2 SOUTHAVEN, MS 38672-7361	
	CAPS Customer Ref. No: 2018 Twin Lakes Water Report CRID: 6926094		CRID: 20614261		CRID: 6926094	
Mailing	Post Office of Mailing MEMPHIS TN 38101-9651	Processing Category Letters	Mailer's Mailing Date 06/10/19	Federal Agency Cost Code	Statement Seq. No.	No. & Type of Containers Sacks: 0 1 ft. Letter Trays: 4 2 ft. Letter Trays: 1 EMM Letter Trays: 0 Flat Trays: 0 Pallets: 0 Other: 0
	Type of Postage Permit Imprint		SSF Transaction ID #		Total # of Pieces in Mailing 742	
	Permit # 380	For Mail Enclosed Within Another Class <input type="checkbox"/> Bound Printed Matter <input type="checkbox"/> Library Mail <input type="checkbox"/> Periodicals <input type="checkbox"/> Media Mail	Weight of a Single Piece 0.0356 lbs.	Combined Mailing	Total Weight 26.4152 lbs.	
			<input type="checkbox"/> Mailpiece is a product sample. % Samples			
	For Automation Rate Pieces, Enter Date of Address Matching and Coding 06/10/19	For Carrier Route Pieces, Enter Date of Address Matching and Coding 06/10/19	For Carrier Route Pieces, Enter Date of Carrier Route Sequencing ____/____/____	For Pieces Bearing a Simplified Address Enter Date of Delivery Statistics File or Alternative Method ____/____/____		
	Move Update Method: NCOALink					
This is a Political Campaign Mailing No		This is Official Election Mail No		<input type="checkbox"/> Letter-size or flat mailpiece contains DVD/CD or other disc.		
Postage	Parts Completed A, B					
	Subtotal Postage (Add parts totals)					\$167.85
	Complete if the mailing includes pieces bearing metered/PC Postage or precanceled stamps. Rate at Which Postage Affixed (Check one) <input type="checkbox"/> Correct <input type="checkbox"/> Lowest <input type="checkbox"/> Neither					
	_____ pcs. x \$ _____ = Postage Affixed					\$0.000
	Incentive/Discount Flat Dollar Amount Fee					-\$2.17 \$0.00
	Net Postage Due					\$167.85
For USPS Use Only: Additional Postage Payment (State reason)						
Total USPS Adjusted Postage					\$167.85	
Certification	Incentive/Discount Claimed: N/A Type of Fee: N/A					
	The mailer certifies acceptance of liability for and agreement to pay any revenue deficiencies assessed on this mailing, subject to appeal. If an agent certifies that he or she is authorized on behalf of the mailer then that mailer is bound by the certification and agrees to pay any deficiencies. In addition, agents may be liable for any deficiencies resulting from matters within their responsibility, knowledge, or control. The mailer hereby certifies that all information furnished on this form is accurate, truthful, and complete; that the mail and the supporting documentation comply with all postal standards and that the mailing qualifies for the prices and fees claimed; and that the mailing does not contain any matter prohibited by law or postal regulation. I understand that anyone who furnishes false or misleading information on this form or who omits information requested on this form may be subject to criminal and/or civil penalties, including fines and imprisonment. Privacy Notice: For information regarding our Privacy Policy visit www.usps.com					

This postage statement was verified and accepted under the PostalOne! program. No postal signature or round stamp is required.

Automation Letters

Letters 3.5 oz (0.2188 lbs) or less

Entry	Price Category	Price	No. of Pieces	Subtotal Postage	Discount Total*	Fee Total	Total Postage	
A3	None	Mixed AADC	\$0.291	2	\$0.5820	\$-0.0060	\$0.0000	\$0.5760
A7	DSCF	5-Digit	\$0.228	719	\$163.9320	\$-2.1570	\$0.0000	\$161.7750
A8	DSCF	AADC	\$0.253	3	\$0.7590	\$-0.0090	\$0.0000	\$0.7500

A9	Part A Total (Add lines A1-A8)						\$163.1010
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Full Service Intelligent Mail Option

A10	DISPLAY ONLY Letters - Number of Pieces that Comply 724.0 x 0.003 =	\$2.1720
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* May contain both Full Service Intelligent Mail and other discounts

Part B

Nonautomation Letters

Machinable Letters 3.5 oz (0.2188 lbs) or less

Entry	Price Category	Price	No. of Pieces	Subtotal Postage	Discount Total	Fee Total	Total Postage	
B5	DSCF	AADC	\$0.264	18	\$4.7520	\$0.0000	\$0.0000	\$4.7520

Part B Total (Add lines B1 - B27)						\$4.7520
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This postage statement was verified and accepted under the PostalOne! program. No postal signature or round stamp is required.

Postage Statement—USPS Marketing Mail

Transaction Number: 201917214264113 M1		CAPS Transaction Number:		Postage Statement Number: 344829263			
Mailing Group	Mailing Group ID 243424609			Mailing Job Number 00014820		Open Date 06-21-2019	
	Preparer FRANKLIN PRESS, INC			Origin Mail.dat		Close Date	
	Job Description 10001-135375 Inkjet Only - FP						
Mailer	Permit Holder's Name and Address and Email Address, if Any NEEL-SCHAFFER 5740 GETWELL RD BLDG 2 SOUTHAVEN, MS 38672-7361 Contact Name: JANA LUNSFORD (662)890-6404		Name and Address of Mailing Agent (If other than permit holder) FRANKLIN PRESS, INC 1391 HIGHLAND RD IMPB BATON ROUGE, LA 70802-7520		Name and Address of Individual or Organization for Which Mailing Is Prepared (If other than permit holder) NEEL SCHAFFER 5740 GETWELL RD BLDG 2 SOUTHAVEN, MS 38672-7361		
	CAPS Customer Ref. No: 2018 Horn Lake Water Report CRID: 6926094		CRID: 20614261		CRID: 6926094		
Mailing	Post Office of Mailing MEMPHIS TN 38101-9651	Processing Category Letters		Mailing Date 06/10/19	Federal Agency Cost Code	Statement Seq. No.	
	Type of Postage Permit Imprint			SSF Transaction ID #	Total # of Pieces in Mailing 4,644		
	Permit # 380	For Mail Enclosed Within Another Class <input type="checkbox"/> Bound Printed Matter <input type="checkbox"/> Library Mail <input type="checkbox"/> Periodicals <input type="checkbox"/> Media Mail		Weight of a Single Piece 0.0181 lbs.	Combined Mailing	Total Weight 84.0564 lbs.	No. & Type of Containers Sacks: 0 1 ft. Letter Trays: 3 2 ft. Letter Trays: 5 EMM Letter Trays: 0 Flat Trays: 0 Pallets: 0 Other: 0
				<input type="checkbox"/> Mailpiece is a product sample. _____ % Samples			
	For Automation Rate Pieces, Enter Date of Address Matching and Coding 06/10/19	For Carrier Route Pieces, Enter Date of Address Matching and Coding 06/10/19	For Carrier Route Pieces, Enter Date of Carrier Route Sequencing ____/____/____		For Pieces Bearing a Simplified Address Enter Date of Delivery Statistics File or Alternative Method ____/____/____		
	Move Update Method: NCOALink						
	This is a Political Campaign Mailing No		This is Official Election Mail No		<input type="checkbox"/> Letter-size or flat mailpiece contains DVD/CD or other disc.		
Parts Completed A, B							
Postage	Subtotal Postage (Add parts totals)					\$1,049.98	
	Complete if the mailing includes pieces bearing metered/PC Postage or precanceled stamps. Rate at Which Postage Affixed (Check one) <input type="checkbox"/> Correct <input type="checkbox"/> Lowest <input type="checkbox"/> Neither					_____ pcs. x \$ _____ = Postage Affixed \$0.00	
	Incentive/Discount Flat Dollar Amount					\$-13.56	
	Fee					\$0.00	
	Net Postage Due					\$1,049.98	
	For USPS Use Only: Additional Postage Payment (State reason)						
Total USPS Adjusted Postage					\$1,049.98		
Certification	Incentive/Discount Claimed: N/A Type of Fee: N/A						
	The mailer certifies acceptance of liability for and agreement to pay any revenue deficiencies assessed on this mailing, subject to appeal. If an agent certifies that he or she is authorized on behalf of the mailer then that mailer is bound by the certification and agrees to pay any deficiencies. In addition, agents may be liable for any deficiencies resulting from matters within their responsibility, knowledge, or control. The mailer hereby certifies that all information furnished on this form is accurate, truthful, and complete; that the mail and the supporting documentation comply with all postal standards and that the mailing qualifies for the prices and fees claimed; and that the mailing does not contain any matter prohibited by law or postal regulation. I understand that anyone who furnishes false or misleading information on this form or who omits information requested on this form may be subject to criminal and/or civil penalties, including fines and imprisonment. Privacy Notice: For information regarding our Privacy Policy visit www.usps.com						

This postage statement was verified and accepted under the PostalOne! program. No postal signature or round stamp is required.

Automation Letters

Letters 3.5 oz (0.2188 lbs) or less

Entry	Price Category	Price	No. of Pieces	Subtotal Postage	Discount Total*	Fee Total	Total Postage	
A3	None	Mixed AADC	\$0.291	2	\$0.5820	\$-0.0060	\$0.0000	\$0.5760
A7	DSCF	5-Digit	\$0.228	4,514	\$1,029.1920	\$-13.5420	\$0.0000	\$1,015.6500
A8	DSCF	AADC	\$0.253	3	\$0.7590	\$-0.0090	\$0.0000	\$0.7500

A9	Part A Total (Add lines A1-A8)						\$1,016.9760
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Full Service Intelligent Mail Option

A10	DISPLAY ONLY Letters - Number of Pieces that Comply 4519.0 x 0.003 =	\$13.5570
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* May contain both Full Service Intelligent Mail and other discounts

Part B

Nonautomation Letters

Machinable Letters 3.5 oz (0.2188 lbs) or less

Entry	Price Category	Price	No. of Pieces	Subtotal Postage	Discount Total	Fee Total	Total Postage	
B5	DSCF	AADC	\$0.264	125	\$33.0000	\$0.0000	\$0.0000	\$33.0000

Part B Total (Add lines B1 - B27) \$33.0000

This postage statement was verified and accepted under the PostalOne! program. No postal signature or round stamp is required.