Water Quality Data Table

The table below lists all 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.

Interpretation of natural deposits.Radium -226 (CPCL)00.41 -0.3 0.412020NoErosion of natural deposits.Radium -226 (CPCL)03.11.33.12020NoErosion of natural deposits.Radium -226 (CPCL)053.11.713.12020NoErosion of natural deposits.Combined Radium (-226 (226)053.11.713.12020NoErosion of natural deposits.Bariun (ppn)220.00540.00180.0482023NoErosion of natural deposits.NDND. Not deceed.Rodom & U (PCL)153.13.12020NoErosion of natural deposits.NDND. Not locatected.Rodom & U (PCL)10010040050.51.12023NoDischarge from featural deposits.NDNot.Not deceed.Rodom & U (PCL)10010040050.51.12023NoDischarge from featural deposits.NDNOL:Macinitana Level Coal: The level of a contaninant in drinking water lebow which deposits.Rodom & U (PCL)1.31.30.130.122.023NoDischarge from featural deposits.NDNOL:MCL:MCL:MCL:MCL:Rodom & U (PCL)1.30.098All stars $+ -1$ 2.022NoCorresion of natural deposits.NDNDNDNDNDNDNDRodom & Corresion of natural deposits. <th></th> <th>MCLG</th> <th>MCL,</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>111</th> <th></th>		MCLG	MCL,							111	
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Inorganic Contaminants										
$\begin{array}{ $	Radium -226 (PC1/L)			0.41	<0.3	0.41	2020	No	Erosion of natural deposits.	Term	Definition
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Barium (ppm)220.05040.00180.05482023NoDischarge of drilling wates; Discharge from metal refineries: Erosion of natural deposits.Important Urinking Water DefinitionGross Alpha, Incl. Radon & U (PC1)1.53.13.13.12020NoErosion of natural deposits. $Erosion of natural deposits.Erosion o$	Combined Radium (-226 & - 228) (PC/L)	0	5	3.1	1.71	3.1	2020	No	Erosion of natural deposits.	NA ND	NA: not applicable. ND: Not detected.
Gross Alpha, Incl. Radon & U (PC/) 15 3.1 3.1 3.1 2.00 No Erosion of natural deposits. MCL Mercodit depositis. Investion or expected risk to health. MCLGs allow (reception representation repr	Barium (ppm)	2	2	0.0504	0.0018	0.0548	2023	No		Important l	Drinking Water Definitions Definition
$\frac{1}{1} + \frac{1}{2} + \frac{1}$	Gross Alpha, Incl. Radon & U (PC/1)		15	3.1	3.1	3.1	2020	No	Erosion of natural deposits.	MCLG	level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs
Fluoride (ppm)*441.030.1321.22023NoEnclosion of natural deposits; water additive witch produces water additive witch produces (ppm)MCLlevel of a contaminant that is allowed in drinking water. MCDs as framed to tracking the produces as framed to tracking the produces as framed to tracking the producesMCLlevel of a contaminant that is allowed in drinking water. MCDs as framed to tracking the produces water additive witch produces (ppm)MCLlevel of a contaminant that is allowed in drinking water. MCDs as framed to tracking the produces as framed to tracking the produces (positis).MCLlevel of a contaminant that is allowed in drinking water. MCDs as framed to tracking the produces (passite).Copper (ppm)1.31.30.0498All states UV AL2022NoCorrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.MCLlevel of a contaminant that is allowed in drinking water. MCDs as framed to tracking the post water additive winch produces (passite).MCLlevel of a contaminant that is allowed in drinking water. MCDs as framed to tracking the produces as framed to tracking the produces.Copper (ppm)1.31.30.0498All states UV AL2022NoCorrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.MCLMCLMCLMCLALChoine' (ppm)MRDLG = 4MRDL = 41.600.901.902023NoWater additive well of control microbes.MCLALALContaminant that is allowed in drinking <br< td=""><td>Chromium (ppb)</td><td>100</td><td>100</td><td>.0005</td><td>0.5</td><td>1.1</td><td>2023</td><td>No</td><td>Discharge from steel and pulp mills; Erosion of natural deposits.</td><td></td><td></td></br<>	Chromium (ppb)	100	100	.0005	0.5	1.1	2023	No	Discharge from steel and pulp mills; Erosion of natural deposits.		
Lead (pp)015=AL8All states \rightarrow All states \rightarrow 2022NoCorrosion of household plumbing systems; Erosion of natural deposits.(mathefed beach of a contaminant in indeed to reduce the level of a contaminant which if exceeded, triggers treatment or other requirements which a water system must follow other requirements whic	Fluoride (ppm)*	4	4	1.03	0.132	1.2	2023	No		MCL	level of a contaminant that is allowed in drinking
Copper (ppm)1.31.30.0498All states below AL2022NoCorrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.TIntended to reduce the level of a contaminant in drinking water.Chlorine ² (ppm)MRDLG = 4MRDL=41.600.901.902023NoWater additive used to control microbes.AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must followTotal Trihalo- Methane (ppb)080 1.12 (TTHM)5.7812.92023NoByproduct of drinking water chlorination.Variance and ExemptionVariances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.Total Trihalo- Methane (ppb)1.821.822023NoRunoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.MRDLGMRDLGTotal Haloacetic Acids (HAAS)(ppb)1.00.082.223NoRunoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.MRDLGMRDLGNitrate [measured as Nitrogen] (ppm)1.00.082.223NoRunoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.MRDLMRDLGMRDLG1.00.082.223NoRunoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.MRDLGMRDLGMRDLG1.00.082.223NoRuno	Lead (ppb)	0	15=AL	8	All states	below AL	2022	No			feasible using the best available treatment technology.
Image: Character of the concentration of the concentrat	Copper (ppm)	1.3	1.3	0.0498	All states	All states below AL 2022		No	Corrosion of household plumbing systems; Erosion of natural	TT	intended to reduce the level of a contaminant in
Total Trihalo- Methane (ppb) 0 80 1.12 (TTHM) 5.78 12.9 2023 No Byproduct of drinking water chlorination. and Exemption not to meet an MCL or a treatment technique under certain conditions. Total Haloacetic Acids (HAA5)(ppb) 1.82 1.82 2023 No Byproduct of drinking water chlorination. MRDLG and Exemption Not meet an MCL or a treatment technique under certain conditions. Notal Haloacetic Acids (HAA5)(ppb) 1.82 1.82 2023 No Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. MRDLG Maximum residual disinfection level goal. The level of a drinking water disinfectant below which there is no flect the benefits of the use of disinfectants to control microbial contaminants. Nitrate [measured as Nitrogen] (ppm) 1.0 0.08 2023 No Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. MNR MNR: Monitored, Not Regulated.	Chlorine ² (ppm)	MRDLG = 4	MRDL=4	1.60	0.90	1.90	2023	No		AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Total Haloacetic Acids 1.82 2023 No MRDLG of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do no reflect the benefits of the use of disinfectants to control microbial contaminants. Nitrate [measured as Nitrogen] (ppm) 1.0 10 0.08 2023 No Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. MRDLG of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do no reflect the benefits of the use of disinfectants to control microbial contaminants.	Total Trihalo- Methane (ppb)	0	80		5.78	12.9	2023	No	Byproduct of drinking water chlorination.	and	not to meet an MCL or a treatment technique under
as Nitrogen] (ppm) Ruinoff from ferturizer use, Leaching from septic tanks, sewage, Erosion of natural deposits. MNR MNR: Monitored, Not Regulated.	Total Haloacetic Acids (HAA5)(ppb)			1.82		1	2023	No		MRDLG	of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not
	Nitrate [measured as Nitrogen] (ppm)	1.0	10	0.08			2023	No		MNR	
					<u> </u>		I	I	1 ×		Maximum Residual Disinfection Level: The highest



level of a disinfectant allowed in drinking water.

There is convincing evidence that addition of a dis-

MPL: State Assigned Maximum Permissible Level.

infectant is necessary for control of contaminants.

MRDL

MPL

*To comply with the "Regulation Governing Fluoridation of Community Water Supplies", CITY OF HORN LAKE - TWIN LAKES 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 11. The percentage of fluoride samples collected in the previous calendar year was within the optimal range of 0.6 – 1.2 ppm was 100%. The number of months samples were collected and analyzed in the previous calendar year was 11.

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

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2023 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.

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 2023 our water department distributed 15,798,000 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, Steven Boxx, Public Works Director, 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://landandwater.deq.ms.gov/swap/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.

Contact Us

If you have any questions about this report or concerning your water utility, please contact Steven Boxx, Public Works Director 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.

UNREGULATED CONTAMINANTS

If any unregulated contaminants, including those from the UCMR4, are detected, the language below should remain in the report for clarification purposes. Remove the language if no unregulated contaminants were detected. The data for detections of these contaminants need only be included in the report for the year that the samples were taken.

If the water system participated in the UCMR4 (where the water system reported directly to EPA), any detected results must be included in the report.

To retrieve your data, please go to: https://www.epa.gov/dwucmr/occurrence-data-unregulatedcontaminant-monitoring-rule

REQUIRED LANGUAGE

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulations are warranted.