

**2023 Annual Drinking Water Quality Report**  
**North Hinds Water Association**  
**PWS#: 0250011, 0250015, 0250029, 0250094**  
**April 2024**

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.

#### **Contact & Meeting Information**

If you have any questions about this report or concerning your water utility, please contact Doug Barker at 601.981.1657. 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 January, April, July, and October at 5:00 PM at the North Hinds Water Association Office.

#### **Source of Water**

Our water source is from wells drawing from the Cockfield Aquifer. 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 wells for our system have received lower susceptibility rankings to contamination.

#### **Period Covered by Report**

We routinely monitor for contaminants in your drinking water according to federal and state laws. This report is based on results of our monitoring period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2023. In cases where monitoring wasn't required in 2023, the table reflects the most recent testing done in accordance with the laws, rules, and regulations.

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.

#### **Terms and Abbreviations**

In the table you may find unfamiliar terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

*Action Level (AL)* : The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

*Locational Running Annual Average(LRAA)*: The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

*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 billion (ppb) or micrograms per liter*: one part by weight of analyte to 1 billion parts by weight of the water sample.

*Parts per million (ppm) or Milligrams per liter (mg/l)*: one part by weight of analyte to 1 million parts by weight of the water sample.

**PWSID# 0250011 (Limekiln) TEST RESULTS**

Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measurement	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>								
10. Barium	N	2022*	.0051	No Range	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
14. Copper	N	2021/23	.3	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2022*	.27	No Range	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2021/23	2	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
<b>Unregulated Contaminants</b>								
Sodium	N	2021*	135	No Range	ppm	20	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
<b>Disinfection By-Products</b>								
81. HAA5	N	2023	16.2	14.2 – 25.4	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2023	57.6	56.5 – 64.2	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2023	.5	.3 – .7	mg/l	0	MDRL = 4	Water additive used to control microbes

**PWSID# 0250015 (Brownsville) TEST RESULTS**

Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measurement	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>								
10. Barium	N	2022*	.0056	.0052 - .0056	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
14. Copper	N	2019/21*	.3	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2022*	.275	.259 - .275	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2019/21*	1	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
<b>Unregulated Contaminants</b>								
Sodium	N	2021*	137	132 - 137	ppm	20	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
<b>Disinfection By-Products</b>								
81. HAA5	N	2023	.021	11.8 – 24.1	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2023	.069	56.7 – 76.7	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2023	.6	.4 – .7	mg/l	0	MDRL = 4	Water additive used to control microbes

<b>PWSID# 0250029 (Chapel Hill) TEST RESULTS</b>								
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measurement	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>								
10. Barium	N	2022*	.0028	No Range	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
14. Copper	N	2021/23	.3	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2022*	.243	No Range	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2021/23	3	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
<b>Unregulated Contaminants</b>								
Sodium	N	2021*	133	No Range	ppm	20	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
<b>Volatile Organic Contaminants</b>								
75. Vinyl Chloride	N	2021*	17.3	No Range	ppb	0	2	Leaching from PVC piping; discharge from plastics factories
<b>Disinfection By-Products</b>								
81. HAA5	N	2023	.015	8.43 – 19.2	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2023	.019	8.24 – 28	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2023	.2	0 – .6	mg/l	0	MDRL = 4	Water additive used to control microbes

<b>PWSID# 0250094 (Shepherds Hill) TEST RESULTS</b>								
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measurement	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>								
10. Barium	N	2022*	.0053	No Range	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
14. Copper	N	2021/23	.1	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2022*	.262	No Range	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2021/23	1	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
<b>Unregulated Contaminants</b>								
Sodium	N	2021*	138	No Range	ppm	20	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
<b>Disinfection By-Products</b>								
81. HAA5	N	2023	.021	16.8 – 22.2	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2023	.07	60.8 – 82.4	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2023	.6	.4 – .6	mg/l	0	MDRL = 4	Water additive used to control microbes

*\* Most recent sample. No sample required for 2023.*

**Unregulated Contaminants:**

Sodium. EPA recommends that drinking water sodium not exceed 20 milligrams per liter (mg/L). Excess sodium from salt in the diet increases the risk of high blood pressure and cardiovascular disease.

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.

**LEAD INFORMATION**

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.

**FLUORIDE INFORMATION**

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", our systems #0250011, #0250015 & #0250084 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 0. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 0%. The number of months samples were collected and analyzed in the previous calendar year was 11.

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", our system #0250029 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 0. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 0%. The number of months samples were collected and analyzed in the previous calendar year was 10.

Note: this system adds fluoride to your drinking water to help prevent and reduce cavities and improve overall oral health. Supply-chain issues have limited or prevented this water system's ability to obtain fluoride on a regular basis. The data presented above only reflects the months when this water system added fluoride to your drinking water.

**VIOLATIONS**

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.

**ENFORCEMENT**

**COMPLIANCE MEETING/ADMINISTRATIVE HEARING**

This public water system was required by the Mississippi State Department of Health, Bureau of Public Water Supply to participate in a compliance meeting or administrative hearing in March 2017 due to being out of compliance with the Federal Safe Drinking Water Act (SDWA): Disinfection Byproducts Rule (DBPR). Our system has entered into a Consent Agreement with MSDH. The system shall retain a Professional Engineer to provide consulting services, evaluate, test and/or pilot treatment options that will reduce the amount of Trihalomethanes and Haloacetic Acids in the system. Have plans or specifications for a new or modified plant. Implement/install the new/modified treatment where all required sampling sites produce LRAA results which are in compliance with the SDWA DBPR MCL by December 31, 2018.

**UNREGULATED CONTAMINANTS**

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.

**MONITORING AND REPORTING OF OTHER RESULTS FROM EUROFINS EATON ANALYTICAL – UNREGULATED**

System PWS ID # 250011

HAA5 – Range 20 – 25.4

TTHM – Range 64 – 64.2

<b>PWS ID # 250011</b>		<b>TEST RESULTS</b>					
Contaminant	Violation Y/N	Date Collected	Range of Detects of Samples	Unit Measurement	MCLG	MCL	Likely Source of Contamination
<b>Eurofins Eaton Analytical – Unregulated Contaminates</b>							
HAA5	N	2023	20 – 25.4	ppb			By-Product of drinking water disinfection.
TTHM [Total trihalomethanes]	N	2023	64 – 64.2	ppb			By-product of drinking water chlorination.

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 North Hinds 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.