



2024 Annual Drinking Water Quality Report

City of Brandon

PWS ID#: 610003

June 2025

Mayor Butch Lee, the Board of Aldermen, and the City of Brandon Public Works Department are pleased to present the 2024 Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services delivered to you by the City of Brandon. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want our customers 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 our water and services and strive to keep our valued customers informed about the water services that we offer.

The City of Brandon currently has ten operating wells, six tanks, one standpipe, and one booster pump. Our wells draw from the Sparta and Cockfield formation aquifers. Our system is required to adhere to all rules and regulations as set by State and Federal officials. This includes, but is not limited to, monthly bacteriological samples, routine inorganic sampling, continuous educational classes and certifications, and billing and collection.

The City of Brandon is pleased to report that our drinking water meets all federal and state requirements. We have learned through monitoring and testing that some constituents have been detected; however, the EPA has determined that your water is safe at these levels.

If you have any questions about this report or concerning your water services, please contact Carly Dearman, Public Works Operations Coordinator, at 601-824-4579, or by email at cdearman@brandonms.org.

The City of Brandon routinely monitors for various constituents in your drinking water according to Federal and State laws. **The table below shows the results of our monitoring for the period of January 1, 2024, to December 31, 2024.** As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It is important to remember that the presence of these constituents does not necessarily pose a health risk.

In this table you will find many terms and abbreviations which might not be familiar to you. To help better understand these terms we have provided the following definitions:

Maximum Contaminant Level - 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 - 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.

Action Level – Action level (AL) is the level of lead or copper which, if exceeded, triggers treatment or other requirements that a water system must follow.

UOM – Unit of Measure

Contaminant	Violation	Collection Date	Highest Level Detected in Your Water	UOM	MCL	MCLG	Range of Results or # of Samples Exceeding MCL	Typical Source of Contamination
INORGANIC CONTAMINANTS								
Antimony, Total	No	2024	<0.0005	ppm	0.006		.006-.006	Discharge from petroleum refineries, fire retardants, ceramics, electronics
Arsenic	No	2024	<0.0005	ppm	.010		.010-.010	Erosion from natural deposits
Barium	No	2024	0.0015	ppm	2		2-2	Erosion of natural deposits
Beryllium, Total	No	2024	<0.0005	ppm	0.004		0.004-0.004	Discharge from metal refineries
Cadmium	No	2024	<0.0005	ppm	0.005		0.005-0.005	Corrosion of galvanized pipes
Cyanide	No	2024	<0.015	ppm	0.2		2-2	
Chromium	No	2024	<0.0005	ppm	0.1		0.1-0.1	
Fluoride	No	2024	0.368	ppm	4		4-4	
Mercury	No	2024	<0.0005	ppm	0.002		0.002-0.002	Erosion of natural deposits
Selenium	No	2024	<0.0025	ppm	0.05		0.05-0.05	Erosion of natural deposits
Thallium, Total	No	2024	<0.0005	ppm	0.002		0.002-0.002	Discharge from ore-processing sites
VOLATILE ORGANIC COMPOUNDS								
1, 2, 4 Trichlorobenzene	No	2024	<0.5	ppb	70		No range	
CIS-1, 2 Dichloroethylene	No	2024	<0.5	ppb	70		No range	
Xylenes, Total	No	2024	<0.5	ppb	10000		No range	
Dichloromethane	No	2024	<0.5	ppb	5		No range	
O-Dichlorobenzene	No	2024	<0.5	ppb	600		No range	
P-Dichlorobenzene	No	2024	<0.5	ppb	75		No range	
Vinyl Chloride	No	2024	<0.5	ppb	2		No range	
1, 1 – Dichloroethane	No	2024	<0.5	ppb	7		No range	
Trans-1, 2 – Dichloroethylene	No	2024	<0.5	ppb	100		No range	
1, 2 – Dichloropropane	No	2024	<0.5	ppb	5		No range	
1, 1, 1 – Trichloroethane	No	2024	<0.5	ppb	200		No range	
Carbon Tetrachloride	No	2024	<0.5	ppb	5		No range	
1, 2 – Dichloropropane	No	2024	<0.5	ppb	5		No range	
Trichloroethylene	No	2024	<0.5	ppb	5		No range	
1, 1, 2 – Trichloroethane	No	2024	<0.5	ppb	5		No range	
Tetrachloroethylene	No	2024	<0.5	ppb	5		No range	
Chlorobenzene	No	2024	<0.5	ppb	100		No range	
Benzene	No	2024	<0.5	ppb	5		No range	
Toluene	No	2024	<0.5	ppb	1000		No range	
Ethylbenzene	No	2024	<0.5	ppb	700		No range	
Styrene	No	2024	<0.5	ppb	100		No range	

Contaminant	Violation	Collection Date	Highest Level Detected in Your Water	UOM	MCL	MCLG	Range of Results or # of Samples Exceeding MCL	Typical Source of Contamination
DISINFECTION BY-PRODUCTS								
Chlorine	No	2024	2.10	MG/L			0.00 MG/L to 3.84 MG/L	Water treatment
TTHM	No	2024	35.6	ppb			31.3-35.6	
HAA5	No	2024	16.2	ppb			11.5-16.2	
NITRATES								
Nitrate	No	2024	<0.08	ppm	10		10-10	
Nitrite	No	2024	<0.02	ppm	1		1-1	
Nitrate-Nitrite	No	2024	<0.1	ppm	10		10-10	
RAD								
Combined Uranium	No	2023	<0.5	ppb	30		No range	
RADIOLOGICAL CONTAMINANTS								
Copper	No	2022	0.3	mg/L			0.0005-0.3	Corrosion of household plumbing system; erosion of natural deposits; leaching from wood preservatives
Lead	No	2022	0.002	mg/L			0.0005-0.002	Corrosion of household plumbing systems; erosion of natural deposits
UNREGULATED CONTAMINANTS (UCMR4 & UCMR5)								
Sodium	No	2023	139	ppm		20	80.3-139	
Lithium	No	2024	23.1	ug/l			9.43-23.1	
Manganese	No	2019	1.9	ug/l			0.48-1.9	
Bromide	No	2019	41.2	ug/l			38.1-41.2	
Total Organic Carbon	No	2019	1470	ug/l			522-1470	
HAA5	No	2019	12.78	ug/l			5.9-12.78	
HAA6Br	No	2019	9.5	ug/l			5.57-9	
HAA9	No	2019	18.22	ug/l			12.4-18.22	
AA9	No	2019	12.4	ug/l			0	

In addition to the above contaminants, the City of Brandon has tested for additional contaminants which the State and EPA have set standards. We round no detectable levels of those chemicals.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or manmade. 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. Additional information regarding water quality standards and guidelines can be found by visiting www.EPA.gov or www.msdh.ms.gov.

Regulation Governing Fluoridation of Community Water Supplies

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", CITY OF BRANDON 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 parts per million (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 0.

Unregulated Contaminants (UCMR4 & UCMR5)

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.

Boil Water Notices (BWN)

When the City of Brandon issues a water related notice, it is displayed on the MSDH website. Got to <https://msdh.ms.gov/page/23,0,148.html> for more information about current notices.

Lead Service Line Inventory

The City of Brandon has completed the Lead Service Line Inventory and no lead lines were found. The methods used to make that determination were plats, property records, and visual inspections through the 2018 Water Meter Project.

The City of Brandon received violations for failure to prepare and report the Lead Service Line Inventory (LSLI) to the MS State Department of Health, Bureau of Public Supply, by October 16, 2024, as required by the Lead and Copper Rule Revisions. We submitted the Lead Service Line Inventory on October 17, 2024.

Lead Educational Statement

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 Brandon is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by the American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact the City of Brandon. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>. The MS Public Health Laboratory (MPHL) can provide information on lead and copper testing and/or other laboratories certified to analyze lead and copper in drinking water. MPHL can be reached at 601-576-7582 (Jackson, MS).

CITY OFFICIALS

Mayor Butch Lee

Sharon Womack - Alderman-at-Large

Jarrad Craine - Alderman Ward 1

Cris Vinson - Alderman Ward 2

Harry Williams - Alderman Ward 3

Lu Coker - Alderman Ward 4

Dwight Middleton - Alderman Ward 5

David Farris - Alderman Ward 6

Public Works Department

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For all after hours and emergency Public Works issues, please call the main Public Works phone number at 601-824-4579. An on-call Public Works employee will be contacted to assist you.