

# 2024 Annual Drinking Water Consumer Confidence Report

## City of Union

### PWS ID # 0510011

Report Completed on April 28, 2025

We are pleased to present to you your 2024 Annual Report. This report is designed to inform you about the quality water and services we deliver to you every day. This report is a snapshot of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. In addition to the contaminants listed below in the chart, we tested for 3 additional organic chemicals for which the state and EPA have set standards. We found no detectable levels of those chemicals. 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. We routinely monitor contaminants in your drinking water according to Federal and State laws. 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. This table shows the results of our monitoring for the period of January 1<sup>st</sup> to December 31, 2024.

## Water System Information

A source water assessment has been completed for the water supply to determine the overall susceptibility of its drinking water to identify potential sources of contamination. The water supply for the City of Union received a lower susceptibility ranking to contamination. Our water source consists of 3 wells that draw from the Upper Meridian Wilcox Aquifer.

We are in the process of replacing the pumps and motors at the water plant to 75 horse power. This will upgrade the number of gallons per minute we can pump. We are also currently painting the North and South water tanks.

If you have any questions about this report or concerning your water utility, please contact Johnathan Ferguson at 601-774-9422. 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 1<sup>st</sup> Tuesday of each month at Union City Hall at 5:30 pm.

## Definitions

In the table below you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we have 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.

**Treatment Technique (TT)** – A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

**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.

**ppb** – parts per billion = micrograms per liter (=1 drop in 1 billion gallons)

**ppm** – parts per million = milligrams per liter (=1 drop in 1 million gallons)

Contaminant Table							
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	MCLG	MCL	Major Source in Drinking Water
<b>Inorganic Contaminants</b>							
13.Barium	N	2022*	0.0252 ppm	No Range	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
21.Copper	N	1/1/22 to 12/31/24	0.1 ppm	None	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
		7/29/24	0.0360 ppm	0.0142 to 0.161			
23.Fluoride	N	2022*	0.768 ppm	None	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Sodium	N	2022*	4320 ppb	No Range	0	250000	Road salt, water treatment chemicals, water softeners and sewage effluents
<b>Disinfectants &amp; Disinfectant By-Products</b>							
83.Chlorine	N	2024	0.80 ppm	0.80 to 0.80	4	4	Water additive used to control microbes
84.Haloacetic Acids (HAA)	N	2024	4.28 ppb	No Range	n/a	60	By-product of drinking water disinfection
85.TTHM [Total trihalomethanes]	N	2024	4.41 ppb	2.15 to 10.6	n/a	100/80	By-product of drinking water disinfection

\* Most recent sample results available

## Fluoride Information

To comply with the “Regulation Governing Fluoridation of Community Water Supplies”, the City of Union is required to report certain results pertaining to fluoridation of our water system. The number of months in the previous calendar year in which the average fluoride sample results were within the optimal range of 0.6 - 1.2 ppm was 8. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6 - 1.2 ppm was 67%. The number of months samples were collected and analyzed in the previous calendar year was 12.

**Note:** This system adds fluoride to your drinking water to help prevent and reduce cavities and improve overall oral health. Supply-chain issues and increased cost of fluoride 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.

## Lead Service Lines

A Lead Service Line inventory has been prepared. The information can be accessed by contacting Johnathan Ferguson at Union City Hall.

## 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 Union 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 an 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 Johnathan Ferguson, City of Union. 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).

## **Additional Information**

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 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 pose a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (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 (800-426-4791).

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask advice from your health care provider.

EPA is reviewing the drinking water standard for arsenic because of special concerns that it may not be stringent enough. Arsenic is a naturally occurring mineral known to cause cancer in humans at high concentrations.

The average household uses approximately 400 gallons of water per day. There are many low cost and no-cost ways to conserve water. Small changes can make a big difference - try one today and soon it will become second nature.

- ▶ Take short showers - a 5-minute shower uses 4 to 5 gallons of water compared to 50 gallons for a bath.
- ▶ Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- ▶ Use a water-efficient showerhead. They are inexpensive, easy to install and can save you up to 750 gallons a month.
- ▶ Run your clothes wash and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- ▶ Water plants only when necessary.
- ▶ Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To

check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.

- ▶ Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- ▶ Teach your children about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!
- ▶ Visit [www.epa.gov/watersense](http://www.epa.gov/watersense) for more information.

Please call our office if you have any questions.