

# 2023 Water Quality Report

## Town of Carlisle

### System # 4410003

We're pleased to provide you with this year's Water Quality Report. We want to keep you informed about the water and services we have delivered to you over the past year. Our goal is to provide you with a safe and dependable supply of drinking water. We are committed to ensuring the quality of your water. Our water is purchased treated surface water (Broad River) from the City of Union.

A Source Water Assessment Plan has been prepared for our system by SCDHEC. If you have any questions about this report or concerning your water utility, or if you do not have internet access, please contact Shannon McBride at 864-427-1505. We want you, our neighbors and valued customers, to be informed about your water utility. Feel free to attend any of our regularly scheduled meetings on the last Tuesday of every month at 6:00 PM at the town hall.

This report shows our water quality and what it means. The Town of Carlisle routinely monitors constituents 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 and chemicals. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

The table below shows the results of our monitoring for the period of January 1st to December 31st, 2023. In this table you will find the following terms and abbreviations:

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

**Parts per million (ppm)** or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

**Parts per billion (ppb) or Micrograms per liter** - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

**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. MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

**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.

**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 for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG)** – 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.

**Non-Detects (ND)** - laboratory analysis indicates that the constituent is not present.

**Running Annual Average (RAA)** – Highest result of quarterly averages.

**TTHMs (Total trihalomethanes)** – Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

<b>LEAD AND COPPER TEST RESULTS (2021)</b>						
Contaminant	Violation Y/N	90 <sup>th</sup> percentile	Unit Measurement	Action Level	Sites over action level	Likely Source of Contamination
Copper	N	0.092	ppm	1.3	0	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

<b>DISINFECTANTS AND DISINFECTION BY-PRODUCTS</b>						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Haloacetic acids (HAAs) (2023)	N	LRAA 14 Range 4.0-26.4	ppb	60	n/a	By-product of drinking water disinfectant
TTHM [Total trihalomethanes] (2023)	N	LRAA 74 Range 34.1-104.7	ppb	80	1	By-product of drinking water chlorination.

Chlorine (2023)	N	RAA 1.0 Range 0.24-1.0	ppm	MRDL= 4	MRDLG = 4	Water additive used to control microbes
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City of Union SWP

<b>TEST RESULTS</b>						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Nitrate (2023)	N	0.54 Range 0.54-0.54	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

<b>UNREGULATED CONTAMINANTS (2023)</b>						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Sodium	N	14.0	ppm	N/A	N/A	Erosion of natural Deposits

**Violation Table**

<b>Total Trihalomethanes (TTHM)</b>			
Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MCL, LRAA	01/01/2023	03/31/2023	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.
MCL, LRAA	04/01/2023	06/30/2023	Water samples showed that the amount of this contamination in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.
MCL, LRAA	07/01/2023	09/30/2024	Water samples showed that the amount of this contamination in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.

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.

**If you have special health needs--**

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).

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 Town of Carlisle 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 drinking 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>.