

A high-speed photograph of water being poured into a clear glass. The water is captured mid-pour, creating a dynamic splash and ripples inside the glass. The background is a soft, light blue gradient. The overall aesthetic is clean and refreshing.

City of Bluff City Water Quality Report

2023

Bluff City 2023 Consumer Confidence Report



Is

my drinking water safe?

Yes, our water meets all of EPA's health standards. We have conducted numerous tests for over 80 contaminants that may be in drinking water. As you'll see in the chart on the back, we only detected 7 of these contaminants. We found all of these contaminants at safe levels.

What is the source of my water?

Your water, which is ground water, comes from Underwood Springs, and also water purchased from Bristol-Bluff city water plant. Our goal is to protect our water from contaminants and we are working with the State to determine the vulnerability of our water source to *potential* contamination. The Tennessee Department of Environment and Conservation (TDEC) has prepared a Source Water Assessment Program (SWAP) Report for the untreated water sources serving water to this water system, The SWAP Report assesses the susceptibility of untreated water sources to *potential* contamination. To ensure safe drinking water, all public water systems treat and routinely test their water. Water sources have been rated as reasonably susceptible, moderately susceptible or slightly susceptible based on geologic factors and human activities in the vicinity of the water source. Bluff City sources rated as reasonably susceptible to *potential* contamination.

An explanation of Tennessee's Source Water Assessment Program, the Source Water Assessment summaries, susceptibility scorings and the overall TDEC report to EPA can be viewed online at <https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/source-water-assessment.html>

or you may contact the Water System to obtain copies of specific assessments. A wellhead protection plan is available for your review at the Bluff City office between 8:00 A.M. to 4:30 P.M. weekdays.



Why are there contaminants in my 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 Safe Drinking Water Hotline (600-426- 4791).

For more information about your drinking water, please call Allen Moultrie at 423-538-7144.

How can I get involved?

Our Board meets on the first Tuesday of the month at 6:00 PM at city hall. Please feel free to participate in these meetings. The Board of Mayor and Aldermen of Bluff City serve four year terms. This an elected position. Decisions by the Board on customer complaints brought before the Board under the city's customer complaint policy may be reviewed by the Utility Management Review Board of the Tennessee Department of Environment and Conservation pursuant to Section 7-82-702(7) Tennessee Code Annotated





• H₂O

that govern our

Is our water system meeting other rules operations?

The State and EPA require us to test and report on our water on a regular basis to ensure its safety. We have met all of these requirements. Results of unregulated contaminant analysis are available upon request. We want you to know that we pay attention to all the rules.

Other Information

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.

Contaminants that may be present in source water:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- 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, urban storm water 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 and the Tennessee Department of Environment and Conservation prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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 under-gone 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 not only their drinking water, but food preparation, personal hygiene, and precautions in handling infants and pets 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).

Lead in Drinking Water

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 Name of your 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>

Water System Security

Following the events of September 2001, we realize that our customers are concerned about the security of their drinking water. We urge the public to report any suspicious activities at any utility facilities, including treatment plants, tanks, fire hydrants, etc. to 423-538-7144



Think before you flush!

Flushing unused or expired medicines can be harmful to your drinking water. Properly disposing of unused or expired medication helps protect you and the environment. Keep medications out of Tennessee's waterways by disposing in one of our permanent pharmaceutical take back bins. There are nearly 100 take back bins located across the state, to find a convenient location please visit:

<https://www.tnpharm.org/patient-resources/disposing-of-unwanted-drugs/>

Terms to Know

- MCLG - Maximum Contaminant Level Goal, or 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.
- MCL - Maximum Contaminant Level or 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. 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.
- MRDL: Maximum Residual Disinfectant Level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for the control of microbial contaminants.
- MRDLG: Maximum residual disinfectant level goal. 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.
- AL - Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- Below Detection Level (BDL) - laboratory analysis indicates that the contaminant is not present at a level that can be detected.
- Non-Detects (ND) - laboratory analysis indicates that the contaminant is not present.
- Parts per million (ppm) or Milligrams per liter (mg/l) - explained as a relation to time and money as 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 - explained as a relation to time and money as one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- Picocuries per liter (pCi/L) - Picocuries per liter is a measure of the radioactivity in water.
- Millirems per year (mrem/yr) - measure of radiation absorbed by the body.
- Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.
- Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- RTCR - Revised Total Coliform Rule. This rule went into effect on April 1, 2016 and replaces the MCL for total coliform with a Treatment Technique Trigger for a system assessment.
- TT - Treatment Technique or a required process intended to reduce the level of a contaminant in drinking water.

Bluff City 2023

Water Quality Data Table

Contaminant	Violation (Y/N)	Level Detected	Range of Detection	Date of Sample	Unit of Measurement	MCLG	MCL	Likely Source of Contamination
Total Coliform	N			2023		0	TT Trigger	Naturally present in the environment
Turbidity	N	0.8	0.03-0.80	2023	NTU	N/A	TT	Soil runoff
Lead	N	90% =BDL		2021	PPB	0	AL=15	Corrosion of Household plumbing systems; erosion of natural deposits
Copper	N	90% = .0944		2021	PPM	1.3	AL=1.3	Corrosion of Household Plumbing system; erosion of natural deposits; leaching from wood preservatives
Sodium	N	2.63	2.63	2023	PPM	N/A	N/A	Erosion of natural deposits; used in water treatment
Nitrate	N	BDL	BDL	2023	PPM	10	10	Runoff from fertilizer use; leaching from septic tank, sewage; erosion of natural deposits
TTHM [Total Trihalomethanes]	N	28.8	21.9-33.5	2023	PPB	N/A	80	By-product of drinking water chlorination
Haloacetic Acids [HAA5]	N	27.78	12.5-44.00	2023	PPB	N/A	60	By-product of drinking water disinfection
Chlorine	N	1.49	0.72-2.07	2023	PPB	4	4	Water additive used to control microbes.

Bristol Bluff Utility CCR

We also purchase water from Bristol Bluff Utility. This is their sampling from 2023

Water Quality Data Table

Contaminant	Violation (Y/N)	Level Detected	Range of Detection	Date of Sample	Unit of Measurement	MCLG	MCL	Likely Source of Contamination
Total Coliform	N	0		2023		0	0	Naturally present in the environment
Turbidity	N	.14	0.03-0.14	2023	NTU	N/A	TT	Soil runoff
Asbestos	N	ND		2022	MFL	7	7	Decay of asbestos cement water main; erosion of natural deposits
Copper	N	90th% = .0208		2023	PPM	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead	N	90th% = BDL		2023	PPB	0	AL=15	Corrosion of household plumbing system; erosion of natural deposits
Sodium	N	6.35		2023	PPM	N/A	N/A	Erosion of natural deposits; used in water treatment
Nitrate	N	.518		2023	PPM	10	10	
Total Organic Carbon	N			2023	PPM	TT	TT	Naturally present in the environment.
TTHM [Total Trihalomethanes]	N	44.03	39.40-43.10	2023	PPB	N/A	80	By-product of drinking water chlorination
Haloacetic Acids [HAA5]	N	37.70	28.10-41.50	2023	PPB	N/A	60	By-product of drinking water disinfection.
Chlorine	N	1.65 avg.	1.3-2.00	2023	PPM	4	4	Water additive used to control microbes.