

# Town of Byrdstown Water Quality Report for 2024

## Is my drinking water safe?

Yes, our water meets all of EPA's health standards. We have conducted numerous tests for over 100 contaminants that may be in drinking water. As you'll see in the chart on the back, we only detected 9 of these contaminants. We found all but one of these contaminants at safe levels.

## What is the source of my water?

Your water, which is surface water, comes from the Dale Hollow Lake. 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 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. The Town of Byrdstown 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.

## 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 (800-426-4791).

Este informe contiene información muy importante. Tradúscalo o hable con alguien que lo entienda bien.

For more information about your drinking water, please call Malcolm "Buster" Harmon at 931-864-6215 Ext # 3.

## How can I get involved?

Town of Byrdstown meets on the first Monday each month at 5:00 PM at Town Hall. Please feel free to participate in these meetings.

## Is our water system meeting other rules that govern our 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.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater 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 stormwater 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 stormwater 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. Town of Byrdstown's water treatment processes are designed to reduce any such substances to levels well below any health concern. 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).

## 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, pumping stations, tanks, fire hydrants, etc. to 615-896-9022

## 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://tdeconline.tn.gov/rxtakeback/>

## Lead in Drinking Water

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. Town of Byrdstown is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking,



cooking, and making baby formula. Boiling water does not remove lead tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish to have your water tested, contact Town of Byrdstown at 931-864-6215 Ext # 3 .Information on lead in drinking water, testing methods,

from water. Before using and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.

#### Lead Service Line Inventory

A Lead Service Line Inventory has been completed for our system and is accessible by contacting our office during regular business hours.

### Water Quality Data

#### What does this chart mean?

- **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.
- **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.
- **Below Detection Level (BDL)** - laboratory analysis indicates that the contaminant is not present at a level that can be detected.
- **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.
- **LRAA**-Locational running annual average is the average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

Contaminant	Violation Yes/No	Level Detected	Range of Detections	Date of Sample	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria (RTCR)	No	0		2024		0	TT Trigger	Naturally present in the environment
Turbidity <sup>1</sup>	No	0.08	0.02-0.08	2024	NTU	N/A	TT	Soil runoff
Copper*	No	90 <sup>th</sup> = .1010	0.0049-0.2130	2024	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride	No	0.361 Avg.	0.30-0.50	2024	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead*	No	90 <sup>th</sup> = .405	<2.00-13.7	2024	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as Nitrogen)	No	.310		2024	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	No	5.63		2024	ppm	N/A	N/A	Erosion of natural deposits; used in water treatment
TTHM <sup>3</sup> [Total trihalomethanes]	No	71.43 LRAA	40.30-113.00	2024	ppb	N/A	80	By-product of drinking water chlorination
Haloacetic Acids (HAA5) <sup>4</sup>	YES	83.75 LRAA	40.70-121.00	2024	ppb	N/A	60	By-product of drinking water disinfection.
Total Organic Carbon <sup>2</sup>	No			2023	ppm	TT	TT	Naturally present in the environment.
Chlorine	No	1.68 Avg.	1.56-2.00	2024	ppm	4	4	Water additive used to control microbes.

\*During the most recent round of Lead and Copper testing, only 0 out of 20 households sampled contained concentrations exceeding the action level.  
<sup>1</sup>100% of our samples were below the turbidity limit.

<sup>2</sup>We have met all treatment technique requirements for Total Organic Carbon removal.

<sup>3</sup> TTHMs- 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.

<sup>4</sup>HAA5- Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

During the second quarter of 2024 using the 3<sup>rd</sup>, 4<sup>th</sup> quarters of 2023 and the 1<sup>st</sup> and 2<sup>nd</sup> quarters of 2024 and during the third quarter of 2024 using the 4<sup>th</sup> quarter of 2023 and the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters of 2024 and during the 4<sup>th</sup> quarter of 2024 using the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2024 at site 102 Harmon Farm Rd. and site 206 Turkey Ridge Rd, location test results, the LRAA for Total Haloacetic Acids has exceeded the MCL. To correct this problem flushing has been increased. There is nothing you need to do at this time. If you have any questions, please contact the Byrdstown Water Department at 931-864-6215 Ext 3.

Please share this information with all other people who drink this water, especially those who may not have read this notice.

Quarter	Site	Site Name	Contaminant	LRAA	MCL	Units	Quarters used for LRAA
2Q2024	102	Harmon Farm Rd.	HAA5	78.48	60	PPB	3Q2023, 4Q2023, 1Q2024, 2Q2024
3Q2024	102	Harmon Farm Rd.	HAA5	83.75	60	PPB	4Q2023, 1Q2024, 2Q2024, 3Q2024
4Q2024	102	Harmon Farm Rd.	HAA5	82.70	60	PPB	1Q2024, 2Q2024, 3Q2024, 4Q2024
2024 Highest HAA site 102 – 83.75							
2Q2024	206	Turkey Ridge Rd.	HAA5	72.55	60	PPB	3Q2023, 4Q2023, 1Q2024, 2Q2024
3Q2024	206	Turkey Ridge Rd.	HAA5	80.35	60	PPB	4Q2023, 1Q2024, 2Q2024, 3Q2024
4Q2024	206	Turkey Ridge Rd.	HAA5	79.00	60	PPB	1Q2024, 2Q2024, 3Q2024, 4Q2024
2024 Highest HAA site 206 – 80.35							

**Important Information About Your Drinking Water**  
**Monitoring Requirements Not Met For Byrdstown Water Department**

Our water system violated a drinking water standard over the past year. Even though this is not an emergency, as our customers, you have a right to know what happened and what we did to correct these situations.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. Each month we are required to collect and submit 9 bacteriological sample test results to the Tennessee Division of Water Resources by the 10<sup>th</sup> day of the following month. During the month of October 2024 we collected the samples, however we failed to submit the test results to the state by the 10<sup>th</sup> day of November 2024.

What should I do?  
There is nothing you need to do at this time.

The table lists the contaminants we did not properly test for during the last year, how often we are supposed to sample for the contaminants and how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which follow-up samples were (or will be) taken.

Contaminant	Required sampling frequency	Number of samples taken	When all samples should have been taken	When samples were or will be taken
Total Coliform Bacteria	9 samples per month	9	October 2024	October 2024

What happened?  
During October 2024, we did complete all monitoring for the contaminants listed in the above table, however we failed to report the results to the State of Tennessee Department of Environmental and Conservation Division of Water Resources Compliance Monitoring Data Portal during the required time period.  
What is being done?  
We sampled these contaminants again in November 2024 and reported them in the required time period and have now returned to compliance.

For more information, please contact Malcolm Harmon at 931-864-6215 Ext 3.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being provided to you by Byrdstown Water Department. State Water System ID# TN0000088.

## **Notice of Reporting Violations with Respect to 2023 Consumer Confidence Report**

1. The Consumer Confidence Rule requires community water systems to deliver a copy of the Consumer Confidence Report (CCR) to water customers by July 1 every year and to the Division of Water Resources (DWR) by October 1 every year. Byrdstown Water Department failed to submit the 2023 Consumer Confidence Report to the Division of Water Resources by October 1, 2024. Therefore on-time delivery of the CCR to the customers could not be verified. This reporting violation is an important aspect of record, however, at no time was the quality of the water provided to the consumers of Byrdstown Water System not meeting Drinking Water Standards.
2. A public notice violation received in 2023 linked to a stage 2 disinfection byproduct violation in the fourth quarter of 2021 was not included in the CCR.