Bath County Water District
Water Quality Report 2025

For previous reports include year.
Example: tapwaterinfo.com/2024/bathcounty

Water System ID: KY0060022 Manager: Christy Creech 606-683-6363	CCR Contact: Elijah Razor	Mailing Address: PO Box 369 Salt Lick, KY 40371	Meeting location and time: 21 Church Street Salt Lick, KY 4th Monday monthly at 7:00PM

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 may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791). To understand the possible health effects described for many regulated contaminants, 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.

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 may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

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 microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Source Information:
Bath County Water District provides purchased water from three suppliers, all of which treat surface water. The suppliers and their sources include: Morehead Utility Plant Board (Licking River); Mt. Sterling Water (Slate Creek and Greenbriar Reservoir); Cave Run Water Commission (Cave Run Lake). Each of these suppliers has conducted an analysis of susceptibility to contamination and the overall susceptibility is generally moderate. Areas of high concern include transportation corridors, underground storage tanks, agricultural land use, residential land use, auto repair facilities, and waste generators. More specific and complete listings of potential sources of contamination are available. The respective Source Water Assessment Plans are available for review at each of the water producers. Contact information for our suppliers can be obtained by calling our office at 606-683- 6363. For information regarding the areas of the District's system served by the different sources of water, please contact the District's office.

Service Area Information:
All customers that are in Farmers and east of Farmers that have their road connect to E Hwy US 60 get their water from Morehead Utility Plant Board (MUPB). Clear Creek Road receives its water from Cave Run Water. Customers north of the city of Owingsville get their water from MUPB as well. Customers east of the city of Owingsville up to 4500 Owingsville Road get their water from MUPB including Flat Creek Road, Van Thompson Road, Saltwell Road, Day Road and all customers on the northeast side of I-64. All remaining customers on Stepstone or roads that are connected to Stepstone receive their water from Mt. Sterling. Customers located east of 4500 Owingsville Road to the interstate receive water from Mt. Sterling Water. Any customer between 2180 Stepstone and 2170 Howards Mill receive water from Mt. Sterling as well. Customers that are on Howards Mill/ Peeled Oak receive water from both MUPB and Mt. Sterling Water as we flow from both directions; Tapp Lane is included as well up to 7197 Spencer to 10112 Spencer Pike. All Customers in Preston through Stulltown get their water from MUPB up to 18 Hope Means Road including all of East Fork Road, Clay Lick, and Pottersville Road. All remaining customers on Hawkins Branch US 460, To Dogtrot and the connection between BCWD and Frenchburg Water get a mix of water from MUPB and Cave Run Water. If you have any questions regarding which water supplier serves your home, please contact our office for more information.

Information About Lead:
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. Your local water system 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 your local water system. 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.

We are required to annually provide information about the health risks from lead in drinking water to schools and child care facilities. All elementary schools, secondary schools, and child care facilities are eligible to be sampled for lead by our water system. Contact our office for scheduling or to learn results of previous sampling.

Service Line Inventory Information:
To address lead in drinking water, EPA requires that all community water systems develop and maintain an inventory of service line materials. We have completed a service line inventory (SLI) and it is available for review at our office.

Lead Sample Results Availability Information:
We are required to periodically sample water from customer taps to determine lead and copper levels. EPA sets the lead action level at 0.015 mg/L (15 ppb). For a water system to be in compliance, at least 90% of tap water samples must have lead levels below this limit. This report contains the 90th percentile and range of our most recent sampling. The individual results for each location sampled can be reviewed at our office.

Some or all of these definitions may be found in this report:
Maximum Contaminant Level (MCL) - 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 (MCLG) - 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.
Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.
Not Applicable (N/A) - does not apply.
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, (µg/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in $10,000,000.
Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in $10,000,000,000.
Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in $10,000,000,000,000.
Picocuries per liter (pCi/L) - a measure of the radioactivity in water.
Millirems per year (mrem/yr) - measure of radiation absorbed by the body.
Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.
Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.
Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.
Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

We are only required to test for some contaminants periodically, so the results listed in this report may not be from the previous year. Only detected contaminants are included in this report. For a list of all contaminants we test for please contact us. Copies of this report are available upon request by contacting our office.

Regulated Contaminant Test Results — Mt. Sterling Water and Sewer

Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Inorganic Contaminants							
Barium [1010] (ppm)	2	2	0.017	0.017 to 0.017	25-Feb	No	Drilling wastes; metal refineries; erosion of natural deposits
Nickel (ppb) (US EPA remanded MCL in February 1995.)	N/A	N/A	2	2 to 2	25-Feb	No	N/A
Nitrate [1040] (ppm)	10	10	0.591	0.591 to 0.591	25-Dec	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
Disinfectants/Disinfection Byproducts and Precursors							
Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	TT*	N/A	1.41 (lowest average)	0.61 to 2.17 (monthly ratios)	2025	No	Naturally present in environment.
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.							
Other Constituents							
Turbidity (NTU) TT * Representative samples	**Allowable Levels**		**Highest Single Measurement**	**Lowest Monthly %**	**Violation**	**Likely Source of Turbidity**	
Turbidity is a measure of the clarity of the water and not a contaminant.	No more than 1 NTU* Less than 0.3 NTU in 95% of monthly samples		0.27	100	No	Soil runoff	

Regulated Contaminant Test Results	Cave Run Regional Water Commission						
Contaminant [code] (units)	**MCL**	**MCLG**	**Report Level**	**Range of Detection**	**Date of Sample**	**Violation**	**Likely Source of Contamination**
Inorganic Contaminants							
Fluoride [1025] (ppm)	4	4	0.71	0.71 to 0.71	Apr-25	No	Water additive which promotes strong teeth
Nitrate [1040] (ppm)	10	10	0.07	0.07 to 0.07	Oct-25	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
Disinfectants/Disinfection Byproducts and Precursors							
Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	TT*	N/A	1.19 (lowest average)	1.00 to 1.93 (monthly ratios)	2025	No	Naturally present in environment.
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.							
Other Constituents							
Turbidity (NTU) TT * Representative samples	**Allowable Levels**		**Highest Single Measurement**	**Lowest Monthly %**	**Violation**	**Likely Source of Turbidity**	
Turbidity is a measure of the clarity of the water and not a contaminant.	No more than 1 NTU* Less than 0.3 NTU in 95% of monthly samples		0.14	100	No	Soil runoff	

In planning for future needs of the community, Morehead Utility Plant Board constructed a brand new, state-of-the-art treatment plant capable of producing up to 12 million gallons of water per day. This plant will serve our region for decades to come. MUPB began using this plant on March 26, 2025. In this report there are two tables of data to show compliance: one for the previous plant for January-March 26, 2025 as well as a table showing compliance for the new plant beginning on March 26, 2025.

Regulated Contaminant Test Results	Morehead Utility Plant Board						
Old Plant Data (January-March 26, 2025)							
Contaminant [code] (units)	**MCL**	**MCLG**	**Report Level**	**Range of Detection**	**Date of Sample**	**Violation**	**Likely Source of Contamination**
Inorganic Contaminants							
Barium [1010] (ppm)	2	2	0.019	0.019 to 0.019	Mar-25	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride [1025] (ppm)	4	4	0.91	0.91 to 0.91	Mar-25	No	Water additive which promotes strong teeth
Nitrate [1040] (ppm)	10	10	0.261	0.261 to 0.261	Feb-25	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
Other Constituents							
Turbidity (NTU) TT * Representative samples	**Allowable Levels**		**Highest Single Measurement**	**Lowest Monthly %**	**Violation**	**Likely Source of Turbidity**	
Turbidity is a measure of the clarity of the water and not a contaminant.	No more than 1 NTU* Less than 0.3 NTU in 95% of monthly samples		0.185	100	No	Soil runoff	

Regulated Contaminant Test Results	Morehead Utility Plant Board						
New Plant Data (March 26-December 31, 2025) and Distribution System Data							
Contaminant [code] (units)	**MCL**	**MCLG**	**Report Level**	**Range of Detection**	**Date of Sample**	**Violation**	**Likely Source of Contamination**
Inorganic Contaminants							
Barium [1010] (ppm)	2	2	0.017	0.017 to 0.017	Jul-25	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride [1025] (ppm)	4	4	0.84	0.84 to 0.84	Jul-25	No	Water additive which promotes strong teeth
Disinfectants/Disinfection Byproducts and Precursors							
Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	TT*	N/A	N/A** (lowest average)	1.13 to 1.94 (monthly ratios)	2025	No**	Naturally present in environment.
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.							
** Compliance with TOC removal is determined on a Running Annual Average and not enough data has been generated yet to determine compliance at our new plant; however, every month our removal ratio has exceeded the minimum necessary to meet compliance							
Other Contaminants							
Source Water Contaminants (untreated water)							
Cryptosporidium [oocysts/L]	0	TT (99% removal)	0 (positive samples)	9 (no. of samples)	2025	No	Human and animal fecal waste
MUPB tested for Cryptosporidium (Crypto) in our source water and none was detected in the 9 samples analyzed in 2025. The organism is found in surface waters and comes from animal and human wastes which enter the watershed. Crypto is eliminated by an effective combination including sedimentation, filtration, and disinfection.							
Other Constituents							
Turbidity (NTU) TT * Representative samples	**Allowable Levels**	**Highest Single Measurement**		**Lowest Monthly %**	**Violation**	**Likely Source of Turbidity**	
Turbidity is a measure of the clarity of the water and not a contaminant.	No more than 1 NTU* Less than 0.3 NTU in 95% of monthly samples	0.092		100	No	Soil runoff	

Regulated Contaminant Test Results			Bath County Water District				
Contaminant [code] (units)	**MCL**	**MCLG**	**Report Level**	**Range of Detection**	**Date of Sample**	**Violation**	**Likely Source of Contamination**
Disinfectants/Disinfection Byproducts and Precursors							
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.39 (highest average)	0.36 to 2.39	2025	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	57 (high site average)	26 to 89 (range of individual sites)	2025	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	73 (high site average)	32.1 to 80.9 (range of individual sites)	2025	No	Byproduct of drinking water disinfection.
Household Plumbing Contaminants							
Copper (ppm) Round 1 sites exceeding action level 0	AL = 1.3	1.3	0.171 (90^{th} percentile)	0.004 to 0.54	May-25	No	Corrosion of household plumbing systems
Copper (ppm) Round 2 sites exceeding action level 0	AL = 1.3	1.3	0.275 (90^{th} percentile)	0.006 to 1.03	Oct-25	No	Corrosion of household plumbing systems
Lead (ppb) Round 1 sites exceeding action level 0	AL = 15	0	2 (90^{th} percentile)	0 to 6	May-25	No	Corrosion of household plumbing systems
Lead (ppb) Round 2 sites exceeding action level 1	AL = 15	0	2 (90^{th} percentile)	0 to 52	Oct-25	No	Corrosion of household plumbing systems

Unregulated Contaminants (UCMR 5)	**average**	**range (ppb)**	**date**
perfluorobutanoic acid (PFBA)	0.001	0 to 0.0058	2024

Your drinking water has been sampled for a series of unregulated contaminants. Unregulated contaminants are those for which EPA has not established drinking water standards. There are no MCLs and therefore no violations if found. The purpose of monitoring for these contaminants is to help EPA determine where the contaminants occur and whether they should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours. Results for sampling done at Bath County are listed in the table above. Testing was also conducted at Mt. Sterling Water and Morehead Utility Plant Board, but none of the contaminants were detected at that time.

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

During the past year we were required to conduct one Level 1 assessment. One Level 1 assessment was completed. In addition, we were required to take one corrective action and we completed one of these actions.