



Winchester Municipal Utilities

KY0250473

DRINKING WATER QUALITY REPORT 2024

150 North Main Street
PO Box 4177
Winchester, KY 40392-4177



Winchester Municipal Utilities (WMU), your drinking water provider, works around the clock to provide exceptional water, wastewater, and solid waste utility services to every consumer. This Drinking Water Quality Report provides you with information regarding your drinking water. For additional information, call WMU at 744-5434.

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

Website: <https://www.wmutilities.com/wp-content/uploads/2024/03/2024-DWQR.pdf>

BACKGROUND INFORMATION ABOUT WMU

WMU is pleased to provide its Drinking Water Quality Report for 2023. The report is to inform you about the quality of your drinking water and is based on monitoring and test results for the year January 1 through December 31, 2023. Water treatment is a complex and highly regulated activity. WMU strives to continually maintain and improve the quality of its drinking water and many of the other utility services provided to you, our customer.

WMU's raw (untreated) water source is the Kentucky River (Pool 10), which is surface water source. The Kentucky River supplied 100% of the water treated in 2023. WMU treated 1,510,417,500 gallons of water during 2023 from the Kentucky River. The Kentucky River is most vulnerable to contamination from agricultural runoff, which may include pesticides, nutrients and silt from croplands, and substances resulting from the presence of animals on pasture lands.

WMU's overall susceptibility to contamination shall be labeled as Moderate. Microbial contaminants, such as Total Coliform, Fecal Coliform, and E Coli are naturally present in the environment, and their presence is tested regularly. Inorganic contaminants, such as copper, fluoride, nitrates, and nitrites are also potential sources of contamination. WMU has a very stringent water sampling program and we take great pride in continuing to ensure our public has the purest drinking water at all hours of the day. All water quality standards are being met by the dedication of our staff and with the assistance of Microbac Laboratories and Pace Analytical Laboratories. A complete source water assessment can be obtained or reviewed at WMU, 150 N. Main Street, Winchester, Kentucky.

The water treatment plant has a rated maximum treatment capacity of 9.0 million gallons per day (MGD). WMU operates its water treatment plant 24 hours per day, 365 days per year. The treatment process utilizes conventional flocculation, sedimentation, high-rate filtration, and disinfection.

WMU provides water service to a customer base of 12,299 direct customers and through water sold for resale, to 2,690 customers of the East Clark County Water District. In total, WMU serves 14,989 water customers in Clark County. Future growth, along with increasing regulatory requirements demands that WMU address the potable water supply to continue to provide high quality drinking water to you, our customer.

SUMMARY OF 2023 WATER QUALITY

WMU routinely monitors for contaminants in your drinking water according to Federal and State regulations. The following table provides the results of our monitoring averages for the period of January 1 through December 31, 2023. Important notes and explanatory definitions are provided at the end of the table.

DETECTED CONTAMINANTS

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 data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Copies of this report are available upon request by contacting our office during business							
Regulated Contaminant Test Results Winchester Municipal Utilities							
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	0.021	0.021 to 0.021	Mar-23	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride [1025] (ppm)	4	4	0.83	0.83 to 0.83	Mar-23	No	Water additive which promotes strong teeth
Nitrate [1040] (ppm)	10	10	0.28	0.28 to 0.28	Jan-23	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	1.63 (lowest average)	1.14 to 4.00 (monthly ratios)	2023	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.							
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.32 (highest average)	0.2 to 2.18	2023	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	40 (high site average)	6.3 to 57.7 (range of individual sites)	2023	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	53 (high site average)	11 to 90.8 (range of individual sites)	2023	No	Byproduct of drinking water disinfection.
Household Plumbing Contaminants							
Copper [1022] (ppm) Round sites exceeding action level 0	AL = 1.3	1.3	0.074 (90 th percentile)	0.0081 to 0.17	Jul-22	No	Corrosion of household plumbing systems
Lead [1030] (ppb) Round 1 sites exceeding action level 0	AL = 15	0	1.2 (90 th percentile)	0 to 3.4	Jul-22	No	Corrosion of household plumbing systems
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		0.13	100	No	Soil runoff	

OTHER TESTS

WMU regularly tests your drinking water for 77 other primary standards, 16 secondary standards, and other standards for which results were found to be within acceptable levels. In order to make this report easier to read and understand, results of those tests are not reported here.

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. WMU 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 Winchester Municipal Utilities at (859) 744-5434. 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> .

REPORTING REQUIREMENTS

The United States Environmental Protection Agency (EPA) requires that every water system provide consumers with an annual consumer confidence or water quality report as a result of the Safe Drinking Water Act Amendments of 1996. The report is intended to provide consumers with information regarding the quality of their drinking water and to encourage actions by consumers to protect drinking water supplies. WMU is providing you with this report so that you might be better informed about the quality of your drinking water.

IMPORTANT DEFINITIONS

MCL - Maximum Contaminant Level

The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as feasible using the best available treatment technology.

MCLG - Maximum Contaminant Level Goal

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.

MRDL - Maximum Residual Disinfectant Level

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.

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.

ND or N/A

Not detected; does not apply; not available

NTU - Nephelometric Turbidity Units

A measure of water turbidity. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

pCi/L - Picocuries per Liter

A unit of measure of radioactivity.

ppm - Parts per Million

A unit of measure; equal to milligrams per liter (mg/L).

ppb - Parts per Billion

A unit of measure; equal to micrograms per liter (ug/L).

Primary Standards

Mandatory standards established and enforced by EPA and the Kentucky Division of Water that relate to water quality health effects and for which monitoring is required.

TT - Treatment Technique

A required process intended to reduce the level of a contaminant in drinking water.

AL - Action Level

That concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

WHY ARE THERE CONTAMINANTS IN DRINKING 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 may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at (800) 426-4791.

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 before treatment include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring 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, 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, the EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. US FDA regulations establish limits for contaminants in bottled water that shall provide the same protection for public health. EPA has determined that drinking water is safe at these levels.

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 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 and the Centers for Disease Control and Prevention (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 at (800) 426-4791.

INFORMATION AND PUBLIC INPUT

If you have questions regarding the information provided in this report or about utility services provided by WMU, please contact WMU (859) 744-5434 or visit WMU's website at www.wmutilities.com. We want you to be informed about the drinking water quality and the utility services provided by WMU.

WMU operates as an enterprise fund of the city of Winchester. Regular public meetings of the WMU Commission are held on the first and third Thursdays of each month at 5:30 p.m. at the WMU administrative offices located at 150 North Main Street, Winchester. The regular meeting agenda for each meeting provides an opportunity for public comment regarding WMU services and operations. The WMU Commission is comprised of local community leaders who are WMU customers and who are very interested in your input. You are invited to avail yourself of this opportunity for public input.

