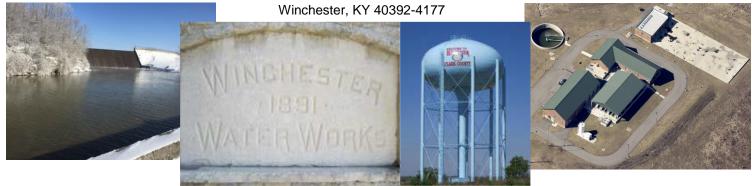
KY0250473

DRINKING WATER QUALITY REPORT 2023

150 North Main Street PO Box 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 informacion importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

Website: https://wmutilities.com/wp-content/uploads/2023/02/2023-DWQR-003.pdf

BACKGROUND INFORMATION ABOUT WMU

WMU is pleased to provide its Drinking Water Quality Report for 2022. 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, 2022. 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 2022. WMU treated 1,546,472,000 gallons of water during 2022 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 12,291 direct customers and through water sold for resale, to 2,650 customers of the East Clark County Water District. In total, WMU serves 14,941 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 2022 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, 2022. Important notes and explanatory definitions are provided at the end of the table.

DETECTED CONTAMINANTS

To understand the possil	ole health	effects descr	ibed for man	v regulate	d conta	minan	ts, a person	would ha	ve to drink 2 liters of water
every day at the MCL lev									
The data presented in this r							_		
authorized and approved by	EPA, the	State has reduce	ed monitoring	requirement	ts for co	rtain co	ntaminants t	o less ofter	n than once per year because
the concentrations of these	contamina	nts are not exp	pected to vary	significantl	y from	year to	year. Some o	f the data i	n this table, though
representative, may be mor	e than one	year old. Copi	es of this rep	ort are av	ailable	upon r	equest by c	ontacting	our office during business
hours.									
Regulated Contaminant Test Results			Winchester Municipal Utilities						
Contaminant			Report	Range		Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level	of Detection		n	Sample	Violation	Contamination
Radioactive Contaminar	nts								
Beta photon emitters	50	0	2.59	2.59	to 2	.59	Jun-22	No	Decay of natural and man-
(pCi/L)									made deposits
Alpha emitters	15	0	0.924	0.924	to 0	.924	Jun-22	No	English Control 1 to 12
[4000] (pCi/L)									Erosion of natural deposits
Combined radium	5	0	1.41	1.41	to 1	.41	Jun-22	No	
(pCi/L)									Erosion of natural deposits
Inorganic Contaminants	<u> </u>		<u> </u>	1				l	<u>l</u>
Fluoride	Ĭ								
[1025] (ppm)	4	4	0.85	0.85	to (0.85	Mar-22	No	Water additive which
[1023] (ppiii)	_	7	0.03	0.03			War 22	110	promotes strong teeth
Nitrate									Fortilizar sym off, looghing
	10	10	0.22	0.22			1	No	Fertilizer runoff; leaching from septic tanks, sewage;
[1040] (ppm)	10	10	0.22	0.22	to (0.22	Jan-22	NO	erosion of natural deposits
TD: 1 0 4 4 /TD: 1 0 4	. D	1 4 10							crosion of natural acposits
Disinfectants/Disinfect		oducts and Pi						1	
Total Organic Carbon (ppm			1.42						Naturally present in
(measured as ppm, but	TT*	N/A	(lowest			38	2022	No	environment.
reported as a ratio)			average)	· ` ` · · ·	hly rati				
*Monthly ratio is the % TO	C removal	l achieved to th	e % TOC rem	oval require	d. Ann	ıal avera	ige must be 1	.00 or grea	ter for compliance.
Chlorine	MRDL	MRDLG	1.36						Water additive used to control
(ppm)	= 4	= 4	(highest	0.24	to 2	.16	2022	No	microbes.
			average)						
HAA (ppb) (Stage 2)			49						Donner dont of deindring contact
[Haloacetic acids]	60	N/A	(high site	8.6	to 1	02.1	2022	No	Byproduct of drinking water disinfection
			average)	(range of i	ndividu	al sites)			distiffection
TTHM (ppb) (Stage 2)			59						
[total trihalomethanes]	80	N/A	(high site	9.24	to 1	17.7	2022	No	Byproduct of drinking water
į			average)	(range of i				0	disinfection.
	ı	1		1,				l .	1
Household Plumbing Co	ontamina	nts							
Copper [1022] (ppm) Roun			0.074						
sites exceeding action level		1.3	(90 th	0.0081	to ().17	Jul-22	No	Corrosion of household
0	1.3	1.3	`	0.0001	.0 (,.1 /	Jui-22	110	plumbing systems
Lead [1030] (ppb) Round 1	AL =		percentile)						
= =		0	(90 th			,	I-1 22	No	Corrosion of household
sites exceeding action level	15	0	`	0	to	3.4	Jul-22	110	plumbing systems
Other Constituents			percentile)			ļ			
Other Constituents				<u> </u>		l			
Turbidity (NTU) TT	Allowable		Highest Single			Lowest Violation			
* Representative samples		evels	Measurem	ent	Mor	thly %		Likely	Source of Turbidity
Turbidity is a measure of	No more t	than 1 NTU*						l	

OTHER TESTS

No

Soil runoff

0.2

the clarity of the water and Less than 0.3 NTU in

95% of monthly samples

not a contaminant.

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

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. WMU 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 and 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.

LEVEL I 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. 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.

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

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.



