Bath County Water District Water Quality Report 2021

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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.

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).

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).

Information About 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. Your local public 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.

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.

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.

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

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 hours.

may be more than one year of										
To understand the possibl every day at the MCL leve					0		· · · · · · · · · · · · · · · · · · ·			
M=Morehea	ard	MS=N	Mount	Ste	erling (CR=Cave	Run E	B=Bath County		
	Allowable		Source	Highest Single Measurement		Lowest Monthly %	Violation		cely Source of Turbidity	
Turbidity (NTU) TT	No more than 1 NTU*		M=	0.275		100	No			
* Representative samples	Less than 0.3 NTU in 95% monthly samples		MS=	0.3		100	No		Soil runoff	
of filtered water			CR=			100	No			
Regulated Contaminant			CR	0	.10		100	110		
Contaminant			ce	Report Rar		nσe	Date of	Violation	Likely Source of	
[code] (units)	MCL MCLG		Source	Level of Det		0		Violution	Contamination	
Radioactive Contaminant		inelig		Letter		200		Sumpre		
Combined radium										
(pCi/L)	5	0	M=	1.02	1.02	to	1.02	May-20	No	Erosion of natural deposits
Inorganic Contaminants	ļ									ļ
Barium			M=	0.016	0.016	to	0.016	Mar-21	No	Drilling wastes; metal
[1010] (ppm)	2	2	MS=			to	0.014	Mar-21	No	refineries; erosion of natural
			CR=	0.014	0.014		0.014	Apr-21	No	deposits
Copper [1022] (ppm)	AL =			0.210						
sites exceeding action level	1.3	1.3	B=	(90 th	0	to	0.22	Jul-19	No	Corrosion of household
0				percentile)						plumbing systems
Fluoride			M=	0.84	0.84	to	0.84	Mar-21	No	
[1025] (ppm)	4	4	MS=		0.68	to	0.68	Mar-21	No	Water additive which
[] (FF)			CR=	0.68	0.68	to	0.68	Apr-21	No	promotes strong teeth
Lead [1030] (ppb)	AL =			0						
sites exceeding action level	15	0	B=	(90 th	0	to	3	Jul-19	No	Corrosion of household
0			_	percentile)			-			plumbing systems
Nickel (ppb)				F)						
(US EPA remanded MCL	N/A	N/A	M=	15.2	15.2	to	15.2	Mar-21	No	N/A
in February 1995.)	1011	1011		10.2	15.2	10	10.2	Mar 21	110	
Nitrate			M=	0.207	0	to	0.207	May-21	No	Fertilizer runoff; leaching
[1040] (ppm)	10	10	CR=		0.26	to	0.26	Mar-20	No	from septic tanks, sewage;
[1010] (ppm)	10	10		0.20	0.20	10	0.20	illur 20		erosion of natural deposits
Disinfectants/Disinfection	n Byprod	ducts and P	recu	rsors	·				110	
Total Organic Carbon (ppm)			M=	1.09	0.98	to	1.51		No	
(report level=lowest avg.	TT*	N/A	MS=		0.83	to	2.18	2021	No	Naturally present in
range of monthly ratios)			CR=	1.1	1	to	2.06		No	environment.
*Monthly ratio is the % TO	removal:	achieved to tl						e must be 1.0		for compliance.
Chlorine	MRDL	MRDLG	- / 0	1.50						
(ppm)	= 4	= 4	B=	(highest	0.43	to	2.36	2021	No	Water additive used to control
(1 1)			٦ ا	average)	5.15					microbes.
HAA (ppb) (Stage 2)				a.eruge)						
[Haloacetic acids]	60	N/A	B=	48	26	to	62	2021	No	Byproduct of drinking water
		1 1/ 2 1	۲ ا	(average)			lividual sites)	2021		disinfection
TTHM (ppb) (Stage 2)				(uverage)	(runge 0					
[total trihalomethanes]	80	N/A	B=	71	28	to	106	2021	No	Byproduct of drinking water
Lestar trinatomethaneoj		11/21	Ľ				lividual sites)		1.0	disinfection.
L	ļ	1	I	(average)	(range 0	1 III (n v radar sites)		ļ	l

Bath County Water District was in compliance with all state and federal regulations in 2021.

Copies of this report will not be mailed. If you would like a copy mailed to you, please contact our office.