2018 Water Quality Report

City of Kuttawa

KY0720227

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Meetings: Kuttawa City Hall 2nd Monday of Each Month 6:00PM

Kuttawa Water Department treats surface water from Lake Barkley. A source water assessment plan has been developed for our water system by the Pennyrile Area Development District. An analysis of the overall susceptibility to contamination of Kuttawa's water supply indicates that potential impacts range from low to high. Sources of high to medium potential impact include bridges and culverts within the critical zone, because of the potential for chemical spill in the case of an accident. Another concern is the potential for chemical spills and petroleum discharges from heavy barge traffic. Sources of low to medium potential impact include the potential for runoff contamination due to the use of pesticides and herbicides for agricultural activity and the wastewater discharges within the watershed. This is a summary of the susceptibility analysis. The complete water source assessment plan is located at the Kuttawa Water Plant at 635 W. Dogwood Drive, Kuttawa, Kentucky 42055. The Kuttawa Water Department routinely monitors for contaminats in your drinking water according to Federal and State laws.

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).

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 \$10,000,000,000,000

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.

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.

	Allowable Levels		Highest Single Measurement			Lowest Monthly %	Violation		
					1			Likely Source of Turbidity	
Turbidity (NTU) TT	No more tha	n 1 NTU*							
* Representative samples	Less than 0.3 NTU in 95% of monthly samples		0.268			100	No	Soil runoff	
of filtered water									
Regulated Contaminan	t Test Resul	ts							
Contaminant			Report	Range		Date of	Violation	Likely Source of Contamination	
[code] (units)	MCL	MCLG	Level of De		f Dete	tection Sample			
Inorganic Contaminant	S								
Barium									Deilling constant of a single
[1010] (ppm)	2	2	0.027	0.027	to	0.027	Feb-18	No	Drilling wastes; metal refineries; erosion of natural deposits
Copper [1022] (ppm)	AL=		0.12						G : 61 111111
sites exceeding action level	1.3	1.3	(90 th	0.0027	to	0.547	Jul-18	No	Corrosion of household plumbing systems
0			percentile)						systems
Fluoride									W. 112 111
[1025] (ppm)	4	4	0.50	0.5	to	0.5	Feb-17	No	Water additive which promotes strong teeth
Lead [1030] (ppb)	AL=		9						Correction of household plumbing
sites exceeding action level	15	0	(90 th	0	to	11	Jul-18	No	Corrosion of household plumbing systems
0			percentile)						Systems
Nitrate [1040] (ppm)	10	10	0.43	0.43	to	0.43	Feb-18	No	Fertilizer runoff; leaching from septi- tanks, sewage; erosion of natural deposits
Disinfectants/Disinfecti	on Byprodu	cts and Precu	rsors				ļ		1 -
Total Organic Carbon (ppm)			1.77						
(measured as ppm, but	TT*	N/A	(lowest	-0.17	to	2.22	2018	No	Naturally present in environment.
reported as a ratio)		-	average)	(mo	onthly	ratios)			
*Monthly ratio is the % TOC re	moval achieved	to the % TOC rer	<u> </u>				ater for complia	ince.	
Chlorine	MRDL	MRDLG	0.85			8		1	T
(ppm)	= 4	= 4	(highest	0.19	to	1.71	2018	No	Water additive used to control
			average)	****					microbes.
HAA (ppb) (Stage 2)			43						
[Haloacetic acids]	60	N/A	(high site	23	to	54	2018	No	Byproduct of drinking water
					(range of individual sites)				disinfection
TTHM (ppb) (Stage 2)			average) 63	(
[total trihalomethanes]	80	N/A	(high site	27	to	80	2018	No	Byproduct of drinking water
[]	""		average)			vidual sites)			disinfection.

Maximum Contaminant Level (MCL's) are set at very stringent levels. 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.

This report will not be sent to individual customers. It will be available at City Hall upon request.

 $Notices \ of \ Violation: \ 2019 \ -9068356, \ 2019 \ -9068355, \ 2019 \ -9068354, \ 2019 \ -9068353$

Notices of Violation: 2019 -9068356 CCR

Notices of Violation: 2019 -9068355, 2019 -9068354, 2019 -9068353 Failure to Submit MOR