City of Kuttawa 2022 Water Quality Report

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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 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.

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.

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

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									tions of these contaminants are not	
upon request by contacting ou				, mough rej	prese	manve, may b	e more than or	ie year old. C	Copies of this report are availab	
Regulated Contaminant		-	City of Kut	lawa						
Contaminant	1050110		Report		Ran	σe	Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level	of		ction	Sample	Violation	Contamination	
Inorganic Contaminant	-	Meld	Level	01	Dette	ction	Sample	VIOLATION	Containination	
Barium	3									
[1010] (ppm)	2	2	0.025	0.025	to	0.025	Feb-22	No	Drilling wastes; metal refineries; erosion of natural deposits	
Chromium										
[1020] (ppb)	100	100	1	1	to	1	Feb-22	No	Discharge from steel and pulp mills; erosion of natural deposits	
Fluoride										
[1025] (ppm)	4	4	0.70	0.7	to	0.7	Feb-22	No	Water additive which promotes strong teeth	
Nitrate									Fertilizer runoff; leaching from	
[1040] (ppm)	10	10	0.427	0.427	to	0.427	Feb-22	No	septic tanks, sewage; erosion of natural deposits	
Disinfectants/Disinfection	on Bypro	ducts and P	recursors					-		
Total Organic Carbon (ppm)			1.67							
(measured as ppm, but	TT*	N/A	(lowest	1.42	to	2.76	2022	No	Naturally present in environment	
reported as a ratio)			average)	(mo	nthly	ratios)				
*Monthly ratio is the % TOC re	moval achie	ved to the % TC	C removal requir	ed. Annual	avera	ige must be 1.	00 or greater f	or compliand	e.	
Chlorine	MRDL	MRDLG	0.96							
(ppm)	= 4	= 4	(highest	0.24	to	1.67	2022	No	Water additive used to control microbes.	
			average)							
HAA (ppb) (Stage 2)			54						Demos duct of deinking water	
[Haloacetic acids]	60	N/A	(high site	27	to	71	2022	No	Byproduct of drinking water disinfection	
			average)	(range of	indi	vidual sites)			uisinteetion	
TTHM (ppb) (Stage 2)			67						Dromon durat of deintrin a water	
[total trihalomethanes]	80	N/A	(high site	7	to	117	2022	No	Byproduct of drinking water disinfection.	
			average)	(range of	indi	vidual sites)			disinfection.	
Household Plumbing Co	ontamina	nts								
Copper [1022] (ppm) Round 1	AL =		0.155						Corrosion of household plumbin	
sites exceeding action level	1.3	1.3	(90 th	0.008	to	0.456	Jul-21	No	systems	
0			percentile)						Systems	
Lead [1030] (ppb) Round 1	AL =		4						Correction of household number	
sites exceeding action level	15	0	(90 th	0	to	4	Jul-21	No	Corrosion of household plumbin systems	
0			percentile)							
Other Constituents										
Turbidity (NTU) TT Allowable			Highest Single Lowest		Violation					
* Representative samples Levels		Measurement Monthl		Monthly %		Likely Source of Turbidity				
Turbidity is a measure of the No more than 1 NTU*										
clarity of the water and not a Less than 0.3 NTU in		.3 NTU in	0.297			100	No	Soil runoff		
contaminant. 95% of monthly samples										
		<u> </u>	Average	Range	e of D	Oetection				

Secondary contaminants do not have a direct impact on the health of consumers. They are being included to provide additional information about the quality of the water.

Secondary Contaminant	Maximum Allowable	Report	Range	Date of
~~~~, ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Level	Level	of Detection	Sample
Aluminum	0.05 to 0.2 mg/l	0.03	0.03 to 0.03	Feb-22
Chloride	250 mg/l	24.2	24.2 to 24.2	Feb-22
Corrosivity	Noncorrosive	-1.06	-1.06 to -1.06	Feb-22
Fluoride	2.0 mg/l	0.74	0.74 to 0.74	Feb-22
pН	6.5 to 8.5	7.11	7.11 to 7.11	Feb-22
Sulfate	250 mg/l	13.7	13.7 to 13.7	Feb-22
Total Dissolved Solids	500 mg/l	116	116 to 116	Feb-22