City of Hindman 2022 Water Quality Report

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Meetings: Hindman City Hall / The 1st Monday, Monthly at 6:30 PM



The City of Hindman purchases water from Knott Co. Water & Sewer District and Southern Water & Sewer District. Both Knott and Southern treat surface water withdrawn from Carr Fork Lake and the Levisa Fork of the Big Sandy River, respectively. A source water assessment has been completed for the water supplies, including a rating of susceptibility to contamination. This susceptibility rating is based on several factors such as intake location, the proximity of the contaminant source, and the nature of the contaminant. The susceptibility to contamination for Knott County is rated moderate, whereas the rating for Southern is high. Potential contaminant sources and pathways that pose a threat to water quality include; roads and bridges; railroad; mining activities, oil and gas wells, untreated sewage; and hazardous waste sites. Activities and land use within the watershed can pose potential risks to your drinking water. Under certain circumstances contaminants could be released that would pose challenges to water treatment or even get into your drinking water. These activities and how they are conducted, are of interest to our customers because they potentially affect your health and the cost of treating your water. The complete Source Water Assessment for Knott Co. is available for review at the Kentucky River Area Development District office in Hazard, KY (606) 436-3158.

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.

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 hours.

Regulated Contaminant T			,,,,,,,			WATER	& SEWEI	R DISTRICT (KY0600062)	
Contaminant	est Results		Report Range			Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level	· 1		Sample	Violation	Contamination	
Inorganic Contaminant	· · · · · · · · · · · · · · · · · · ·		Level	***	****	Sumpre			
Fluoride	.5							I	
[1025] (ppm)	4	4	0.42	0.42 to	0.42	May-22	No	Water additive which promotes strong teeth	
Disinfection Byproduct	Precurso	r				l .			
Total Organic Carbon (ppm)			1.14						
(measured as ppm, but	TT*	N/A	(lowest	0.99 to	1.74	2022	No	Naturally present in environment.	
reported as a ratio)			average)	average) (monthly ratios)					
*Monthly ratio is the % TOC re	moval achie	ved to the % TO	C removal re	quired. Annual	average must	be 1.00 or grea	ter for comp	liance.	
Other Constituents				1			<u> </u>		
Turbidity (NTU) TT	Allowable		Highest Single		Lowest		Likely Source of Turbidity		
* Representative samples	Levels		Measurement		Monthly %	Violation			
Turbidity is a measure of the	No more th		Wedstrement Working		, ,,,				
clarity of the water and not a	Less than 0		0	0.084		No	Soil runoff		
contaminant.		nthly samples	Ŭ		100	1,0	Son runon		
Regulated Contaminant T	-				S	OUTHER	I WATEI	R DISTRICT (KY0360026)	
Contaminant			Report	Rai	nge	Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level	of Det	O	Sample	Violation	Contamination	
Inorganic Contaminant	<u> </u>		Level	or Det	cction	Sample		Contamination	
Barium	.s 						1	I	
[1010] (ppm)	2	2	0.064	0.064 to	0.064	2022	No	Drilling wastes; metal refineries; erosion of natural deposits	
Chromium [1020] (ppb)	100	100	0.6	0.6 to	0.6	2022	No	Discharge from steel and pulp mills; erosion of natural deposits	
Fluoride [1025] (ppm)	4	4	0.41	0.41 to	0.41	2022	No	Water additive which promotes	
[1023] (ppiii)	_	7	0.41	0.41 10	0.41	2022	110	strong teeth	
Nitrate								Fertilizer runoff; leaching from	
[1040] (ppm)	10	10	0.38	0.38 to	0.38	2022	No	septic tanks, sewage; erosion of natural deposits	
Selenium								Discharge from petroleum and	
[1045] (ppb)	50	50	0.7	0.7 to	0.7	2022	No	metal refineries or mines; erosion of natural deposits	
Disinfection Byproduct	Precurso	r							
Total Organic Carbon (ppm)			1.32						
(measured as ppm, but	TT*	N/A	(lowest	1 to	2.14	2022	No	Naturally present in environment.	
reported as a ratio)			average)	(month)	y ratios)				
*Monthly ratio is the % TOC re	moval achie	ved to the % TO	C removal re	quired. Annual	average must l	be 1.00 or grea	ter for comp	liance.	
Other Constituents									
Turbidity (NTU) TT	Al	lowable	Highest Single		Lowest	X72-1 43		I Sala Camara (T. 142)	
* Representative samples	Levels		Measurement		Monthly %	Violation	Likely Source of Turbidity		
Turbidity is a measure of the	No more than 1 NTU* Less than 0.3 NTU in		0.29			No	Soil runoff		
clarity of the water and not a					100				
contaminant.	95% of mor	nthly samples							
Regulated Contaminant Test Results CITY OF HINDMAN (KY0600198)									
Contaminant			Report Range		nge	Date of Likel		Likely Source of	
[code] (units)	MCL	MCLG	Level	of Det	ection	Sample	Sample Violation Contamination		
Disinfectants/Disinfection	on Bynro	ducts							
Distinction by products									

Chlorine	MRDL	MRDLG	1.29	1.10		4.50) I	Water additive used to control
(ppm)	= 4	= 4	(highest	1.19	to	1.29	2022	No	microbes.
			average)						
HAA (ppb) (Stage 2)			40						
[Haloacetic acids]	60	N/A	(high site	23	to	59	2022	I No	Byproduct of drinking water disinfection
			average)	(range o	of indiv	ridual sites)			
TTHM (ppb) (Stage 2)			44						Byproduct of drinking water
[total trihalomethanes]	80	N/A	(high site	5	to	63	2022	No	disinfection.
			average)	(range o	of indiv	ridual sites)			
Household Plumbing Contaminants									
Copper [1022] (ppm)	AL =		0.0077						Corrosion of household plumbing
sites exceeding action level	1.3	1.3	(90 th	0.0064	to	0.0084	Aug-19	No	systems
0			percentile)						

PUBLIC NOTICE

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the 3/1/2022 - 3/31/2022, 9/1/2022 - 9/30-2022 and 1/1/2023 - 1/31/2023 monitoring period we did not monitor or test for Total Coliform bacteria and therefore cannot be sure of the quality of your drinking water during that time.

There is nothing you need to do at this time. You do not need to use an alternative (e.g., bottled) water supply.

The table below lists the contaminant(s) we did not properly test for during the last year, how often we are supposed to sample for this contaminant and how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which follow-up samples were taken.

Contominant	Required sampling	Number of samples	Number of samples that	When samples were	
Contaminant	frequency	taken	should have been taken	taken	
Total Coliform	Monthly	1	2	Apr-22	
Total Coliform	Monthly	1	2	Oct-22	
Total Coliform	Monthly	0	2	Feb-23	

What happened? Who is at risk? What is being done?

The monitoring periods for which we received these voilations correspond with the storm events that streched our resources to the limit and we failed to collect all of our bacteriological samples. Since receiving these voilations we have made meeting our compliance goals a priority. We are updating our operations & maniteiance program with sample collection protocols. No one was at risk because of this violation. We test for chlorine residual in our distribution system daily. Those results are in indicator that any coliform bacteria present in the system would have been inactivated due to the chlorine concentration. Our water suppliers provides us with high quality water that does not need any additional disinfection.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

Violation number(s) 2022 - 9509266, 2023 - 9509269, 2023 - 9509272