Mortons Gap Water Department 2019 Water Quality Report

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We purchase our water from the South Hopkins Water District which is purchased from Dawson Springs Water System. Their source is Lake Beshears which is classified as surface water. Sources of impact include chemical storage facilities, landfills, underground storage tanks, auto repair shops, oil/gas wells highways, bridges, waste water treatment plants, golf courses, cemeteries, septic systems, and agricultural. An analysis of the overall susceptibility is generally moderate for Lake Beshears. This is a summary of an assessment. The Grape Vine area is served by the City of Madisonville. Madisonvile utilizes surface water from Lake PeeWee. Sources of impact include chemical storage facilities, underground storage tanks, highways, septic systems, and agricultural. An analysis of the overall susceptibility is generally moderate for Lake Pee Wee. The complete reports are available at the Pennyrile Area Development office in Hopkinsville, located at 300 Hammond Drive Hopkinsville, 42240. (270) 886-9484. They can also be obtained at Mortons Gap City Hall 102 South Main Street, Mortons Gap Kentucky 42440, (270) 258-5362.

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	Toet Roculte				Dawso	n Snrings	South Hon	kins Water	District
Contaminant	Report Range				South Hopkins Water District Date of Likely Source of				
[code] (units)	MCL	MCLG	Level of Detection			Sample	Violation	Contamination	
Inorganic Contaminants		L	Level		or Detection		Бинри	<u> </u>	Contamination
Barium	<u>, </u>	1	l						-
[1010] (ppm)	2	2	0.016	0.016	to	0.016	Feb-19	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride									
[1025] (ppm)	4	4	0.40	0.4	to	0.4	Feb-19	No	Water additive which promotes strong teeth
Disinfection Byproduct	Precursor								I.
Total Organic Carbon (ppm)			1.73						
(measured as ppm, but	TT*	N/A	(lowest	1.19	to	2.07	2019	No	Naturally present in environment.
reported as a ratio)			average)		(monthly ratios)				
*Monthly ratio is the % TOC	removal achiev	ed to the % TO	removal requir	ed. Annual aver	rage must be 1.00	or greater for	compliance.		
Other Constituents			•				•		
Turbidity (NTU) TT	Allo	wable	Highest Single			Lowest	Lowest	I lleader Community of Treat like	
* Representative samples	Le	evels		Measurement		Monthly %	Violation		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		0.27			100	No		Soil runoff
contaminant.	95% of monthl		0.27						
	•		•						
Regulated Contaminant	Test Results					Mortons G	ap Water I	Department	
Contaminant	Mar	MCLG	Report Range			Date of	77.1.4	Likely Source of	
[code] (units)	MCL		Level		of Detection		Sample	Violation	Contamination
Disinfectants/Disinfection	n Byproducts	and Precurs	ors					•	
Chlorine	MRDL	MRDLG	1.29						
(ppm)	= 4	= 4	(highest	0.72	to	1.51	2019	No	Water additive used to control microbes.
41 /			average)						
HAA (ppb) (Stage 2)			39						
[Haloacetic acids]	60	N/A	(high site	15	to	40	2019	No	Byproduct of drinking water disinfection
[Taloacette acids]	00	11/11	average)		ge of individual s	-	2017	1.0	J
TTHM (ppb) (Stage 2)			49	(tan	50 OI marviduar				
[total trihalomethanes]	80	N/A	(high site	29	to	41	2019	No	Byproduct of drinking water disinfection.
[total dilialoniculatics]	00	IN/PA		-	ge of individual s		2017	110	2 product of drinking water distinction.
Household Plumbing Co	ntominonto	ı	average)	(ran	ge of ilidividual s	sucs)		l	ı
·			0.0541					1	1
Copper [1022] (ppm)	AL =	1	0.0541 (90 th	0.0020		0.114	g 10	No	Corrosion of household plumbing systems
sites exceeding action level	1.3	1.3	(90	0.0038	to	0.114	Sep-19	INO	Corrosion of nousehold plumbing systems

Violation #	Contaminant	Compliance Period	Explanation			
2020-7209307	Chlorine	09/01/2019 - 09/30/2019	Our distribution operator became critically ill during the compliance period. The Mortons Gap Water Department had no other employee qualified to perform the tasks. Our operator has since fully recovered and the system has returned to compliance.			
2019-7209306	Chlorine	03/01/2019 - 03/31/2019	The violation was for failure to collect and report minimum daily chlorine residuals throughout the distribution system. These samples are submitted with our Monthly Operating Report (MOR). All samples were taken. However, the division of water received the MOR past the 10 day period after the end of the month. We have been completing the report sooner to ensure the report reaches DOW in a timely manner.			
2019-7209305	Monthly Operating Report (MOR)	03/01/2019 - 03/31/2019	Failure to submit Monthly Operating Report (MOR). We are required to have the MOR delivered to the Division of Water within 10 days of the end of the compliance period. The report was mailed on the 9th of the following month but did not reach the DOW office until past the deadline. We are working to have the report finished and mailed out sooner to prevent these types of violations in the future.			

This report will not be mailed to each individual customer. If you would like a copy or have a y questions regarding this report, please contact James Vandiver at (270) 258-5362, or at the Mortons Gap City Hall.