2020 Water Quality Report

Manager: James Vandiver

Mortons Gap Water Department

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KY0540269

Address: City Hall, 131 Cross Street Mortons Gap, KY 42440

Meetings: 131 Cross Street Public Meetings 1st Monday of each month at 7:00 pm

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 complete report is available at the Pennyrile Area Development office in Hopkinsville, located at 300 Hammond Drive Hopkinsville, Kentucky 42240. (270) 886-9484. It 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

Preocuries 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.

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A = Dawson Springs Water			000000								
Regulated Contaminant	t Test Res	ults	M	ortons G	ap Water	r De	partment		· · · · · · · · · · · · · · · · · · ·		
Contaminant code (units)	MCL	MCLG	Source	Report	eport Range Level of Detection		Date of	Violation	Likely Source of		
Inorganic Contaminant		MCLG	S	Level			Sample		Contamination		
Barium	<u>, </u>			0.010	0.010		0.010	F 1 44	T M.		
[1010] (ppm)	2	2	A=	0.019	0 019	to	0.019	Feb-20	No	Drilling wastes, metal refineries, erosion of natural deposits	
Fluoride [1025] (ppm)	4	4	Λ=	0.75	0,75	to	0.75	Feb-20	No	Water additive which promotes strong teeth	
Disinfectants/Disinfection	on Bypro	ducts and	Prec	ursors							
Total Organic Carbon (ppm) (report level=lowest avg. range of monthly ratios)	TT*	N/A	A=	1.84	1.62	to	2 10	2020	No	Naturally present in environment	
*Monthly ratio is the % TOC r	emoval achie	eved to the %	TOC	removal requ	ured Annu	al av	erage must be	1 00 or greate	er for compli	ance	
Chlorine (ppm)	MRDL = 4	MRDLG = 4	B=	1.19 (highest	1.08	to	1.31	2020	No	Water additive used to control microbes	
Chlorite (ppm)	1	0.8	A=	0 720 (average)	0.18	to	0.78	2020	No	Byproduct of drinking water disinfection	
Chlorine dioxide (ppb)	MRDL = 800	MRDLG = 800	A=	800	0	to	800	2020	No	Water additive used to control microbes.	
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	B=	28 (average)	17 (range of	to f indi	39 vidual sites)	2020	No	Byproduct of drinking water disinfection	
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	B=	40 (average)	29	to	54 vidual sites)	2020	No	Byproduct of drinking water disinfection	
Household Plumbing C	ontamina	nts									
Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	B=	0 054 (90 th percentile)	0.0038	to	0.114	Sept-19	No	Corrosion of household plumbing systems	
Other Constituents	12							0.010-0.0	18-3 - 1-1		
Turbidity (NTU) TT	Allowable Levels		Source	Highest S			Lowest	Violation			
* Representative samples				Measurement		_	Monthly %		Likely Source of Turbidity		
Turbidity is a measure of the clarity of the water and not a contaminant	No more than I NTU* Less than 0 3 NTU in 95% monthly samples		A=	0 27			100	No		Soil runoff	

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