2018 Water Quality Report

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Public Meeting 2nd Monday of the month at 5:00pm Meetings: Hardinsburg City Hall

Activities and land uses around the Hardinsburg source of water 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 are of interest to the entire community because they potentially affect your health and the cost of treating your water. Hardinsburg Reverse Osmosis Water Treatment Facility withdraws groundwater from a well field composed of three separate wells which are located in Breckinridge County at mile 707 on the east bank of the Ohio River. An analysis of the susceptibility to contamination of the Hardinsburg water supply indicates 3 areas of potential contamination concern. The potential contaminants of greatest concern include train tracks, Highway 144 roadway, and farming sites located within the Wellhead Protection Area. The possibility for a potential hazardous material accidentally spilling and leaking into the groundwater due to a vehicle or train accident or run-off from the nearby row crops creates a susceptibility ranking of high. A copy of the CCR report can be obtained upon request at Hardinsburg City Hall Monday-Friday between 8am and 4pm.

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

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. Copies of this report are available upon request by contacting our office during business hours.

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.

	Allowable Levels		Highest Single Measurement			Lowest	Violation	Likely Source of Turbidity		
1]	Monthly %				
Turbidity (NTU) TT	No more tha	ın 1 NTU*								
* Representative samples	Less than 0.	3 NTU in	0.07			100	No		Soil runoff	
of filtered water	95% of mon	thly samples								
Regulated Contaminant	Test Resul	ts	Hardinsburg	g RO Wa	ter T	reatment P	lant			
Contaminant			Report		Ran	ge	Date of	Violation Likely Source of Contamination		
[code] (units)	MCL	MCLG	Level	0	f Dete	ction	Sample			
Inorganic Contaminants							-			
Barium									Drilling wastes; metal refineries;	
[1010] (ppm)	2	2	0.011	0.011	to	0.011	Sep-17	No	erosion of natural deposits	
Copper [1022] (ppm)	AL=		0.122						a : 21 1111 1:	
sites exceeding action level	1.3	1.3	(90 th	0.0035	to	0.163	Aug-16	No	Corrosion of household plumbing systems	
0			percentile)						systems	
Fluoride									W. 110 111	
[1025] (ppm)	4	4	0.70	0.7	to	0.7	Sep-17	No	Water additive which promotes strong teeth	
Lead [1030] (ppb)	AL=		0						Corrosion of household plumbing	
sites exceeding action level	15	0	(90 th	0	to	6	Aug-16	No	systems	
0			percentile)						2,000	
Nitrate									Fertilizer runoff; leaching from septic	
[1040] (ppm)	10	10	1.1	1.1	to	1.1	Feb-18	No	tanks, sewage; erosion of natural deposits	
Disinfectants/Disinfection	n Byprodu	cts and Precu	rsors				•			
Chlorine	MRDL	MRDLG	1.07							
(ppm)	= 4	= 4	(highest	0.37	to	1.14	2018	No	Water additive used to control microbes.	
			average)						.IICTOUCS.	
HAA (ppb) (Stage 2)			2						B 1	
[Haloacetic acids]	60	N/A	(high site	1	to	5	2018	No	Byproduct of drinking water disinfection	
l			average)	(range o	of indiv	ividual sites)			distinction	
TTHM (ppb) (Stage 2)			3						Down down Calciuling server	
[total trihalomethanes]	80	N/A	(high site	1	to	5.6	2018	No	Byproduct of drinking water disinfection.	
			average)	(range of individu		vidual sites)		distinction.		
Unregulated Contaminants (UCMR 4)			average	range (ppb)			date			
Manganese			0.570	0	to	1.14	Mar-18	1		
HAA5			2.410	0.74	to	3.99	Sep-18	1		
**			2.110	V., .						
HAA6Br			0.131	0	to	0.72	Sep-18	1		

Your drinking water has been sampled for a series of unregulated contaminants. Unregulated contaminants are those that EPA has not established drinking water standards. There are no MCLs and therefore no violations if found. The purpose of monitoring for these contaminants is to help EPA determine where the contaminants occur and whether they should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours.

	Average	Rang	Range of Detection		
Fluoride (added for dental health)	0.8	0.71	to	1.2	
Sodium (EPA guidance level = 20 mg/L)	10.5	10.5	to	10.5	