## Hustonville Water Works 2018 Water Quality Report

Manager:	Mark Maddox	CCR Contact: Mark Maddox
Address:	PO Box 110 Hustonville, KY	40437
Meetings:	Hustonville City Hall / First Tu	lesday each month at 7:00 pm

We purchase our water from the City of Danville. Danville treats surface water from Herrington Lake. An analysis of the susceptibility of the Danville water supply to contamination indicates that the susceptibility is generally moderate. However, there are some areas of high concern. The Kentucky Division of Water has identified Herrington Lake as impaired. Also, forested areas and agricultural areas located in the watershed for Danville's intake introduce the potential for logging and the application of agricultural chemicals. Other areas of concern include power line rights-of-way with potential herbicide use, recreational grasses (i.e., golf courses) associated with the potential for chemical usage, major roads and railways, large capacity septic systems and numerous residential septic systems located throughout the watershed. Activities and land uses within the watershed can pose potential risks to your drinking water. These activities, and how they are conducted, are of interest to the entire community because they potentially affect your health and the cost of treating your water. The complete Source Water Assessment Plan is available for review at the Danville Water Department.

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.

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.

-			• •				would have to	drink 2 lite	rs of water every day at the MCI
level for a lifetime to have a o	ne-in-a-miii	lion chance of ha	0	nville Wa					
		llowable	-	est Single				r	
		Levels	-	surement		Lowest Monthly %	Violation	1	Likely Source of Turbidity
Turbidity (NTU) TT	No mor	e than 1 NTU*						Soil runoff	
* Representative samples	Less the	an 0.3 NTU in	0.1			100	No		
of filtered water	95% of n	95% of monthly samples					110		
<b>Regulated Contaminant Test</b>		5 1							
Contaminant		1	Report Range		e	Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level	1 0		5	Sample	Violation	Contamination
Inorganic Contaminants							~		
Barium									
[1010] (ppm)	2	2	0.02	0.02	to	0.02	Mar-18	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride									
[1025] (ppm)	4	4	0.7	0.7	to	0.7	Mar-18	No	Water additive which promotes strong teeth
Nitrate		Ì						Ì	Fertilizer runoff; leaching from
[1040] (ppm)	10	10	1	1	to	1	Mar-18	No	septic tanks, sewage; erosion of natural deposits
<b>Disinfection Byproducts Prec</b>	ursor							-	·
Total Organic Carbon (ppm)			2.42						
(measured as ppm, but	TT*	N/A	(lowest	1.5	to	4.13	2018	No	Naturally present in environment.
reported as a ratio)			average)	(mo	onthly	ratios)			
*Monthly ratio is the % TOC re	emoval achie	eved to the % TOO	C removal rec	quired. Anr	ual a	verage must b	be 1.00 or great	ter for compl	iance.
Other Contaminants				-					
Cryptosporidium	0	TT	2			3	2019	N.	
[oocysts/L]		(99% removal)	(positive	samples)	(no.	of samples)	2018	No	Human and animal fecal waste
plant is sufficient to adequately	remove Cry	ptosporidium from	n your drink	ing water.					her treatment at the water treatmen
system. It was not detected in t	he finished v	water. Current test	methods do	not enable	us to	determine if	the organisms	are dead or i	the raw water source for our wate f they are capable of causing disease may be spread through means othe
than drinking water.									
			Hust	onville V	Vater	Works			
Inorganic Contaminants									
Copper [1022] (ppm)	AL =		0.060						Comparing of how of the last of the
sites exceeding action level	1.3	1.3	(90 <sup>th</sup>	0	to	0.19	Aug-16	No	Corrosion of household plumbing systems
0			percentile)						5,500110
Lead [1030] (ppb)	AL =		0						Comparing of how 1, 11, 1, 1
sites exceeding action level 0	15	0	(90 <sup>th</sup> percentile)	0	to	2	Aug-16	No	Corrosion of household plumbing systems
Disinfectant(s) & Disinfection	n Byproduct	ts							
Chlorine	MRDL	MRDLG	1.65						W7 / 11/2 1
(ppm)	= 4	= 4	(highest average)	0.90	to	1.90	2018	No	Water additive used to control microbes.
HAA (ppb) (Stage 2)	1	I	42						
	(0	N/A	(high site	26	to	60	2018	No	Byproduct of drinking water disinfection
[Haloacetic acids]	60	10/1	average)	(range of	f indiv	vidual sites)			
[Haloacetic acids] TTHM (ppb) (Stage 2)	00	11/11		(range of	f indiv	vidual sites)			Byproduct of drinking water

## Unregulated Contaminant Monitoring Public Notice

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.