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, (μ g/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.



Garrard County Water Association Water Quality Report 2019

To request a paper copy call 859-792-4501.



Water System ID: KY0400151 Manager: Sean Smith 859-792-4501 CCR Contact: Sean Smith 859-792-4501

Mailing address: P.O. Box 670 Lancaster, KY 40444

Meeting location and time: 315 Lexington Street, Lancaster, KY First Tuesday each month at 7:30 PM

This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.

Garrard County Water Association provides purchased water from several suppliers, all of which treat surface water. The suppliers and their sources include: Berea Municipal Utilities withdraws from Upper Silver Creek, Lower Silver Creek, Cowbell and Owslev Fork Lakes: Lancaster Water System withdraws from Lancaster's East Reservoir which is filled by water pumped from the Kentucky River; Danville Water System withdraws from Lake Herrington. Each of these suppliers has conducted an analysis of susceptibility to contamination and the overall susceptibility is generally moderate. Areas of high concern include transportation corridors, underground storage tanks, agricultural land use, and waste generators. The respective Source Water Assessment Plans are available for review at each of the water producers. Contact information for our suppliers can be obtained by calling our office at 859-792-4501.

For specific service areas contact the Garrard County Water Association. General service areas for each supplier:

Berea - serves south of Highway 52 and east and south of Highway 954 beginning at Narrow Gap Road.

Danville - serves the Bryants Camp area, Fork Church Road, the Fisher Ford Road area, and a portion of Highway 34.

Lancaster and Danville – (combined water) serves customers north of the intersection of US 27 and Highway 34.

Lancaster – serves all other customers not mentioned in service areas above.

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. Immunocompromised 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).

Information About Lead:

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.

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.

metime to nave a one-m-a-min	ion chance o	Thaving the	lescii	den neann ei	lect.						
	All	Allowable		Highest S	Single		Lowest	Violation			
	Levels		Sour	Measurement		Monthly %		Likely Source of Turbidity			
Turbidity (NTU) TT	No more than 1 NTU*		B=	0.15 0.7			100	No	Soil runoff		
* Representative samples	Less than 0.3 NTU in		D=				100	No			
of filtered water 95% monthly samples		L=	0.29			100	No				
Regulated Contamina	nt Test R	esults B	erea	(B) Dan	ville (I)) I	ancaster ((L)			
Contaminant			rce	Report		Rai	ige	Date of	Violation	Likely Source	af
[code] (units)	MCL	MCLG	Source	Level	c	of Detection		Sample		Contamination	1
Barium			B=	0.011	0.011	to	0.011	2019	No	D.11	1.0
[1010] (ppm)	2	2	D=	0.02	0.02	to	0.02	2019	No	erosion of nat	; metal refineries; tral denosits
			L=	0.02	0.02	to	0.02	2019	No	croston or nuc	and deposito
Fluoride			B=	0.72	0.72	to	0.72	2019	No		
[1025] (ppm)	4	4	D=	0.7	0.7	to	0.7	2019	No	Water additive which p strong teeth	e which promotes
			L=	0.8	0.8	to	0.8	2019	No		
Nitrate			B=	0.38	0.38	to	0.38	2019	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits	f; leaching from
[1040] (ppm)	10	10	D=	1	1	to	1	2019	No		
			L=	0.5	0.5	to	0.5	2019	No		
Chlorobenzene										Discharge from chemical and agricultural chemical factories	
[2989] (ppb)	100	100	D=	1	1	to	1	2019	No		
Disinfectants/Disinfec	tion Byp	roducts a	nd P	recursors	8			ļ	1		
Total Organic Carbon (ppm)			B=	1.57	1.03	to	2.57	2019	No		
(report level=lowest avg.	TT*	N/A	D=	2.32	2.11	to	4.42	2019	No	Naturally pres	ent in environment.
range of monthly ratios)			L=	3.99	1.42	to	6.83	2019	No		
*Monthly ratio is the % TOC1	removal achi	eved to the %	TOC	removal requ	ired. Ann	u al a	verage must b	e 1.00 or great	er for compli	iance.	
Unregulated Contami	nants (U	CMR 4)		average	ra	nge	(ppb)	date			
Manganese		D	1.267	0	to	2.2	2019				
HAA5			D	25.313	14	to	38	2019]		
HAA6Br			D	3.525	2.4	to	6.6	2019			
HAA9			D	28.688	17	to	45	2019			

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.

LWW received a Notice of Violation (NOV) during 2019; this NOV was due to a laboratory error ("failure to submit analytical results for Dichloromethane"). During analysis, the laboratory failed to obtain a reportable result for this compound; all other compounds within the Volatile Organic Analysis were found to be below detectable levels. We are required to notify our customers of this NOV; however, we do not feel that this situation created any health issue.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The US Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

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, mursing homes, schools, and businesses or those without internet access). You can do this by posting this notice in a public place or distributing copies by hand or mail.

Information provided by	T roy Deshon				
	Lancaster Water Works				
	743 Waterworks Road				
	Lancaster, KY 40444				

Phone: 859-792-3188 Fax: 859-792-3341

LWW is distributing their 2019 CCR electronically; they will not be mailing a hardcopy of this report directly to its consumers. This report can be printed for reference or a hardcopy can be obtained by contacting LWW.

Regulated Contaminant Test Results Garrard County Water Association									
Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection		Date of Sample	Violation	Likely Source of Contamination	
Copper [1022] (ppm) sites exceeding action level 0	AL= 1.3	1.3	0.21 (90 th percentile)	0	to	1.06	Aug-18	No	Corrosion of household plumbin systems
Lead [1030] (ppb) sites exceeding action level 0	AL= 15	0	0 (90 th percentile)	0	to	3	Aug-18	No	Corrosion of household plumbin systems
Disinfectants/Disinfection Byproducts and Precursors									
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.18 (highest average)	1	to	1.45	2019	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	52 (high site average)	3 (range	to of indiv	89 idual sites)	2019	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	61 (high site average)	20 (range	to of indiv	96.2 idual sites)	2019	No	Byproduct of drinking water disinfection.