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 2023

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 Owsley 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 - Did not utilize their water in 2022.

Lancaster - 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:

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 water system is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact your local water system. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead.

The data presented in this report approved by EPA, the State has contaminants are not expected this report are available upon	is reduced m to vary sign	nonitoring req nificantly from	uireme 1 year t	ents for certa to year. Som	in contan e of the da	iinants ata in tl	to less often	than once per	year becaus	1
Regulated Contamina	nt Test R	esults	Dany	ville Wat	er Wor	·ks (E) Lanca	aster Wate	r Works ((L)
Contaminant			Source	Report		Rang	ge	Date of		Likely Source of
[code] (units)	MCL	MCLG	Sou	Level	0	of Detection		Sample	Violation	Contamination
Inorganic Contamina	nts	-						-		
Barium			D=	0.02	0.02	to	0.02	2023	No	Drilling wastes; metal refineries; erosion of natural deposits
[1010] (ppm)	2	2	L=	0.03	0.03	to	0.03	2023	No	
Fluoride			D=	0.79	0.03	to	0.79	2023	No	
[1025] (ppm)	u) 4 4	4		0175	0.77	0,,,,	0175		110	Water additive which promotes
			L=	0.80	0.80	to	0.80	2023	No	strong teeth
Nitrate			D=	1.53	1.53	to	1.53	2023	No	Fertilizer runoff; leaching from
[1040] (ppm)	10	10								septic tanks, sewage; erosion of natural deposits
Disinfectants/Disinfec	tion Byp	roducts a	nd P	recursors	8					
Total Organic Carbon (ppm)			D=	2.30	1.61	to	3.65	2023	No	
(report level=lowest avg.	TT*	N/A								Naturally present in environmen
range of monthly ratios)			L=	3.32	2.20	to	5.33	2023	No	
*Monthly ratio is the % TOC r	emoval achi	eved to the %	TOC	removal requ	ired. Anr	nual av	erage must b	e 1.00 or greate	r for complia	nce.
Other Constituents										
Turbidity (NTU) TT	Allowable		Source	Highest Single			Lowest	Violation		
* Representative samples	Levels		S01	Measurement		Ι	Aonthly %		Likely Source of Turbidity	
Turbidity is a measure of the clarity of the water and not a	No more than 1 NTU*		D=	0.10			100	No		
contaminant.	Less than (Na		Soil runoff

100

0.28

95% monthly samples

L=

No

	Regulated Contaminar	Garrard County Water Association										
	Contaminant		MCLG	Report	Range of Detection			Date of Sample	Violation	Likely Source of Contamination		
	[code] (units)	MCL		Level								
Disinfectants/Disinfection Byproducts and Precursors												
of	Chlorine	MRDL	MRDLG	1.63						Water additive used to control		
	(ppm)	= 4	= 4	(highest	1.1	to	2.1	2023	No	microbes.		
				average)								
	HAA (ppb) (Stage 2)			52								
	[Haloacetic acids]	60	N/A	(high site	29	to	72	2023	No	Byproduct of drinking water disinfection		
				average)	(range o	ofindiv	idual sites)					
	TTHM (ppb) (Stage 2)			51								
	[total trihalomethanes]	80	N/A	(high site	17.6	to	75	2023	No	Byproduct of drinking water disinfection.		
-				average)	(range of individual sites)							
	Household Plumbing (Contami	nants							•		
	Copper [1022] (ppm) Round 1	AL=		0.18						Corrosion of household plumbing		
	sites exceeding action level	1.3	1.3	(90 th	0	to	0.25	Aug-21	No	systems		
_	0			percentile)								
	Lead [1030] (ppb) Round 1	AL=		0						Corrosion of household plumbing systems		
	sites exceeding action level	15	0	(90 th	0	to	3	Aug-21	No			
	0			percentile)					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.

Level 1 Assessment: A Level 1 Assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Coliforms are bacteria that are naturally present in the environment and are used an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment distribution. When this occurs, we are required to conduct assessment(s) to identify problems and correct any problems that we found during the assessment.

During the past year we were required to conduct one Level 1 Assessment. One Level 1 Assessment was completed. In addition, we were required to take two corrective actions and we completed those two actions