East Casey County Water District Water Quality Report 2019

Water System ID: KY0230556	CCR Contact: Andy Greynolds	Mailing Address:	Meeting location and time:
Manager: Andy Greynolds	606-787-9961	P.O. Box 56	690 S. Wilkinson Blvd
606-787-9961	agreynolds@windstream.net	Liberty, KY 42539	3rd Tuesday monthly at 7:00 PM

Our purchased water comes from five different suppliers that treat surface water, the City of Liberty serves most of the county except southern portion (Liberty Lake), Jamestown serves southern portion and Somerset via Eubank serves the Grove Ridge area (Lake Cumberland), Campbellsville serves the northwest portion and Columbia/Adair Utilities serves a few customers in Clementsville and Pellyton area (Green River Lake). Source Water Assessments have been conducted for each source and the susceptibility is generally low. The greatest concerns include transportation corridors, agricultural activities, urban residential and business activities, and waste generators. The complete Source Water Assessment Plans listing specific contaminant sources are available for review at the respective water producer offices or at the Lake Cumberland Area Development office in Russell Springs, KY.

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).

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.

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.

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.

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 request a paper copy call 606-787-9961.

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.**

Regulated Contamina	ni itsi N										
Contaminant			Source	Report		Rang	ge	Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	So	Level	0	f Deteo	ction	Sample		Contamination	
Barium			L	0.03	0.03	to	0.03			Drilling wastes; metal refineries;	
[1010] (ppm)	2	2	J	0.021	0.021	to	0.021	2019	No	erosion of natural deposits	
			S	0.02	0.02	to	0.02			1	
Fluoride			L	0.9	0.9	to	0.9			Water additive which promotes	
[1025] (ppm)	4	4	J	0.88	0.88	to	0.88	2019	No	strong teeth	
			S	0.7	0.7	to	0.7			8	
Nitrate			L	0.3	0.3	to	0.3		No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of	
[1040] (ppm)	10	10	J	0.52	0.52	to	0.52	2019			
			S	0.3	0.3	to	0.3			natural deposits	
Selenium										Discharge from petroleum and	
[1045] (ppb)	50	50	s	2	2	to	2	2019	No	metal refineries or mines; erosion of natural deposits	
Benzo(a)pyrene(PAH)										Leaching from linings of water	
[2306] (ppt)	200	0	L	BDL	BDL	to	61	2019	No	storage tanks and distribution lines	
Chlorobenzene										Discharge from chemical and	
[2989] (ppb)	100	100	L	0.7	0.7	to	0.7	2019	No	agricultural chemical factories	
			S	1	1	to	1				
Total Organic Carbon (ppm)			L	3.46	1.66	to	6.52				
(report level=lowest avg.	TT*	N/A	J	2.36	0.9	to	4.56	2019	No	Naturally present in environment	
range of monthly ratios)			S	1.14	1	to	1.38				
*Monthly ratio is the % TOC r	emoval achi	eved to the %	TOC	removal requ	ired. Ann	ualavo	erage must be	e 1.00 or great	er for complia	ance.	
Source Water Contani	inants (u	ntreated w	ater)		-			1		
Cryptosporidium	0	TT							See		
[oocysts/L]			J	3			7	2019	Note	Human and animal fecal waste	
									Below	Frankin and anniki food waste	
		(99% removal)	(positive s	samples)	(no.	of samples)				
Other Constituents									-		
Turbidity (NTU) TT	All	owable	Source	Highest S	ingle		Lowest	Violation			
* Representative samples	L	evels	Sou	Measurement		N	Monthly %		Likely Source of Turbidity		
Turbidity is a measure of the	No more th	an 1 NTU*	L	().06		•				
clarity of the water and not a	Less than ().3 NTU in	J	(0.03		100	No		Soil runoff	
contaminant.	95% month	ly samples	s	0	.032			1.0			

Cryptosporidium is a microbial pathogen found in surface water. Cryptosporidium was detected in 3 sample of 7 collected from the raw water source for Jamestown water system. It was not detected in the finished water. Current test methods do not enable us to determine if the organisms are dead or if they are capable of causing disease. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Cryptosporidium must be ingested to cause disease and it may be spread through means other than drinking water.

Unregulated Contaminants (UCMR 4)		average	range (ppb)			date	
Manganese	S	31.825	7.2	to	91	2019	
HAA5	S	32.063	11	to	67	2019	
HAA6Br	S	3.45	1	to	6.9	2019	
HAA9	S	35.563	12	to	74	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.

Regulated Contamina	nt Test R	esults	East Casey	County Water Dis	strict		
Contaminant			Report	Range	Date of	Violation	Likely Source of
[code] (units)	MCL	MCLG	Level	of Detection	Sample		Contamination
Chlorine	MRDL	MRDLG	0.88				
(ppm)	= 4	= 4	(highest	0.41 to 1.19	2019	No	Water additive used to control microbes.
			average)				merobes.
HAA (ppb) (Stage 2)			59				
[Haloacetic acids]	60	N/A	(high site	31 to 81	2019	No	Byproduct of drinking water disinfection
			average)	(range of individual sit	es)		disinfection
TTHM (ppb) (Stage 2)			50				
[total trihalomethanes]	80	N/A	(high site	15.4 to 73.5	2019	No	Byproduct of drinking water
[]			average)	(range of individual sit			disinfection.
Household Plumbing	Contami	nants		(8	/	!	
Copper [1022] (ppm)	AL=		0.22				
sites exceeding action level	1.3	1.3	(90th	0 to 0.25	Jul-17	No	Corrosion of household plumbing
	1.5	1.5	`	0 10 0.25	541-17	110	systems
Lead [1030] (ppb)	AL=		percentile) 2				
		0			1.1.17	No	Corrosion of household plumbing
sites exceeding action level	15	0	(90th	0 to 9	Jul-17	INO	systems
0			percentile)				
Unregulated Contami	nants (l	UCMR 4)	average	range (ppb)	date		
Manganese			2.249	0 to 6.6	Sep-19		
HAA5			32.750	27 to 50	Dec-19		
HAA6Br			2.313	1.2 to 3.4	Dec-19	1,	la watan nunahasa di fuan
HAA9			35.125	30 to 54	Dec-19		lo water purchased from Columbia-Adair in 2019
Regulated Contamina	nt Test R	esults	Campbells	ville Water and Se	wer System		
				time trater and se			
Contaminant			Report	Range	Date of	Violation	Likely Source of
Contaminant [code] (units)	MCL	MCLG				Violation	Likely Source of Contamination
	MCL		Report	Range	Date of	Violation	Contamination
[code] (units)	MCL 2		Report	Range	Date of	Violation No	Contamination Drilling wastes; metal refineries;
[code] (units) Barium		MCLG	Report Level	Range of Detection	Date of Sample		Contamination
[code] (units) Barium		MCLG	Report Level	Range of Detection	Date of Sample		Contamination Drilling wastes; metal refineries; erosion of natural deposits
[code] (units) Barium [1010] (ppm) Fluoride		MCLG	Report Level	Range of Detection	Date of Sample Apr-19		Contamination Drilling wastes; metal refineries; erosion of natural deposits Water additive which promotes
[code] (units) Barium [1010] (ppm)	2	MCLG 2	Report Level 0.02	Range of Detection 0.02 to 0.02	Date of Sample	No	Contamination Drilling wastes; metal refineries; erosion of natural deposits
[code] (units) Barium [1010] (ppm) Fluoride	2	MCLG 2	Report Level 0.02	Range of Detection 0.02 to 0.02	Date of Sample Apr-19	No	Contamination Drilling wastes; metal refineries; erosion of natural deposits Water additive which promotes strong teeth
[code] (units) Barium [1010] (ppm) Fluoride [1025] (ppm) Nitrate	2	MCLG 2	Report Level 0.02	Range of Detection 0.02 to 0.02	Date of Sample Apr-19 Apr-19	No	Contamination Drilling wastes; metal refineries; erosion of natural deposits Water additive which promotes
[code] (units) Barium [1010] (ppm) Fluoride [1025] (ppm)	2	MCLG 2 4	Report Level 0.02 0.80	Range of Detection 0.02 to 0.03 to 0.8 to	Date of Sample Apr-19	No	Contamination Drilling wastes; metal refineries; erosion of natural deposits Water additive which promotes strong teeth Fertilizer runoff; leaching from
[code] (units) Barium [1010] (ppm) Fluoride [1025] (ppm) Nitrate [1040] (ppm)	2	MCLG 2 4	Report Level 0.02 0.80 0.4 0.4	Range of Detection 0.02 to 0.03 to 0.8 to	Date of Sample Apr-19 Apr-19	No	Contamination Drilling wastes; metal refineries; erosion of natural deposits Water additive which promotes strong teeth Fertilizer runoff; leaching from septic tanks, sewage; erosion of
[code] (units) Barium [1010] (ppm) Fluoride [1025] (ppm) Nitrate [1040] (ppm) Total Organic Carbon (ppm)	2 4 10	MCLG 2 4 10	Report Level 0.02 0.80 0.4 1.24	Range of Detection 0.02 to 0.02 0.8 to 0.8 0.4 to 0.4	Date of Sample Apr-19 Apr-19 Apr-19	No No No	Contamination Drilling wastes; metal refineries; erosion of natural deposits Water additive which promotes strong teeth Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
[code] (units) Barium [1010] (ppm) Fluoride [1025] (ppm) Nitrate [1040] (ppm) Total Organic Carbon (ppm) (measured as ppm, but	2	MCLG 2 4	Report Level 0.02 0.02 0.80 0.4 1.24 (lowest	Range of Detection 0.02 to 0.02 0.8 to 0.8 0.4 to 0.4 1.00 to 2.11	Date of Sample Apr-19 Apr-19	No	Contamination Drilling wastes; metal refineries; erosion of natural deposits Water additive which promotes strong teeth Fertilizer runoff; leaching from septic tanks, sewage; erosion of
[code] (units) Barium [1010] (ppm) Fluoride [1025] (ppm) Nitrate [1040] (ppm) Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	2 4 10 TT*	MCLG 2 4 10 N/A	Report Level 0.02 0.80 0.4 1.24<(lowest average)	Range of Detection 0.02 to 0.02 0.8 to 0.8 0.4 to 0.4 1.00 to 2.11 (monthly ratios) (monthly ratios)	Date of Sample Apr-19 Apr-19 Apr-19 2019	No No No No	Contamination Drilling wastes; metal refineries; erosion of natural deposits Water additive which promotes strong teeth Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits Naturally present in environment.
[code] (units) Barium [1010] (ppm) Fluoride [1025] (ppm) Nitrate [1040] (ppm) Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio) *Monthly ratio is the % TOC 1	2 4 10 TT*	MCLG 2 4 10 N/A	Report Level 0.02 0.80 0.4 1.24 (lowest average)	Range of Detection 0.02 to 0.02 0.8 to 0.8 0.4 to 0.4 1.00 to 2.11 (monthly ratios) (monthly ratios)	Date of Sample Apr-19 Apr-19 Apr-19 2019	No No No No	Contamination Drilling wastes; metal refineries; erosion of natural deposits Water additive which promotes strong teeth Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits Naturally present in environment.
[code] (units) Barium [1010] (ppm) Fluoride [1025] (ppm) Nitrate [1040] (ppm) Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio) *Monthly ratio is the % TOC 1 Other Constituents	2 4 10 TT* removal achie	MCLG 2 4 10 N/A eved to the % T	Report Level 0.02 0.80 0.4 1.24 (lowest average) OC removal required	Range of Detection 0.02 to 0.02 0.02 to 0.02 0.8 to 0.8 0.4 to 0.4 1.00 to 2.11 (monthly ratios) ired. Annual average must	Date of Sample Apr-19 Apr-19 Apr-19 2019 t be 1.00 or greater	No No No No	Contamination Drilling wastes; metal refineries; erosion of natural deposits Water additive which promotes strong teeth Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits Naturally present in environment.
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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.