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4th Monday of each Month @ 6:00 PM

The source of water for Crittenden-Livingston County Water District is surface water from the lower Cumberland River. Our treatment plant is located in Pinckneyville. An analysis of the susceptibility of the Crittenden-Livingston County Water District water supply to contamination sources indicates that the susceptibility is generally high. A susceptibility analysis evaluates the potential for contaminants to enter the water supply. There are twenty types of potential contaminants in the protection area for the Crittenden Livingston County Water District water supply. These types include bridges, large capacity septic tanks, underground storage tanks, coast guard stations, landfills, chemical storage facilities, rock quarries and mines, auto repair facilities, wastewater treatment plants, barge traffic, asphalt plant and highways. The degree of hazard ranges from moderate to high due to the potential for chemical spills. This is a summary of the source water protection plan. The complete report is available for review at the Crittenden Livingston County Water District office.

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 \$10,000,000,000,000.

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.

**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 Contaminant Test Results Crittenden-Livingston Co Water District**

Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
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**Radioactive Contaminants**

Combined radium (pCi/L)	5	0	0.42	0.42 to 0.42	July-17	No	Erosion of natural deposits
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**Inorganic Contaminants**

Fluoride [1025] (ppm)	4	4	0.79	0.79 to 0.79	Nov-21	No	Water additive which promotes strong teeth
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Nitrate [1040] (ppm)	10	10	0.26	0.26 to 0.26	Sep-21	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
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**Disinfectants/Disinfection Byproducts and Precursors**

Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	TT*	N/A	0.81 (lowest average)	-6.22 to 2.12 (monthly ratios)	4th quarter 2021	YES	Naturally present in environment.
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\*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.

Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.83 (highest average)	1 to 2.2	2021	No	Water additive used to control microbes.
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HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	46.5 (high site average)	32 to 62.8 (range of individual sites)	2021	No	Byproduct of drinking water disinfection
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TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	77.3 (high site average)	37 to 109.7 (range of individual sites)	2021	No	Byproduct of drinking water disinfection.
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**Household Plumbing Contaminants**

Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	0.055 (90 <sup>th</sup> percentile)	0 to 0.098	July-20	No	Corrosion of household plumbing systems
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Lead [1030] (ppb) sites exceeding action level 0	AL = 15	0	0 (90 <sup>th</sup> percentile)	0 to 2.6	July-20	No	Corrosion of household plumbing systems
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**Other Constituents**

Turbidity (NTU) TT * Representative samples	Allowable Levels	Highest Single Measurement	Lowest Monthly %	Violation	Likely Source of Turbidity
Turbidity is a measure of the clarity of the water and not a contaminant.	No more than 1 NTU* Less than 0.3 NTU in 95% of monthly samples	0.13	100	No	Soil runoff

Notice by Crittenden - Livingston Water District – System ID#: KY0700532

Our water system recently violated a drinking water standard. Although this is not an emergency, as our customers, you have a right to know what happened, what you should do, and what we did (are doing) to correct this situation.

We are required to remove specific disinfection byproduct (DBP) Precursors between source water and filtered water. The DBP Precursors test results from the last twelve (12) months that ended on 12/31/2021 show that our system does not meet the required DBP Precursors removal rate. Running Annual Average (RAA) of the DBP Precursors removal ratio for this twelve (12) month period is calculated at 0.81, which is below the required ratio of 1.00. This is a treatment technique violation.

•There is nothing you need to do. **You do not need** to boil your **water** or take other corrective actions. However, if you have specific health concerns, consult your doctor.

This is not an emergency. If it had been, you would have been notified within 24 hours. However, Total organic carbon. Total organic carbon (TOC) has no health effects. However, total organic carbon, provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes, or THMs, and haloacetic acids, or HAAs. Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.  
What is being done?

Our system recieved a Notice of Violation from our primacy agency Kentucky Division of Water. We failed to meet DBP precursor removal ratio 1.0 (TOC). The system's 4th QTR 2021 ratio is 0.81. We have been sending the TOC samples to two independent certified labs. We believe Raw and Finished samples were switched by the lab and that is our compliance issue. It is probable that our system will change labs to insure compliance. We anticipate resolving the problem within 18 Months.

For more information, please contact Russell Tyler Pierson at (270) 988-2680 or 620 E. Main Salem, KY 42078.

\*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, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.\*

This notice is being sent to you by Crittenden - Livingston Water District. State Water System ID#: KY0700532.  
Date distributed:03/31/22.