Lewisport Water Works 2022 Water Quality Report

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Meetings: Lewisport City Hall / Third Thursday of the Month



The source of our drinking water is groundwater. The city withdraws water from three wells drilled into the alluvial aquifer adjacent to the Ohio River where it is processed at our water treatment plant. During the treatment process oxidation is used to remove contaminants after which the water is filtered and disinfected with chlorine to further protect public health. As part of a multi- barrier approach to safeguard the public, land uses within the wellhead protection area have been assessed to better understand their potential impact to water quality and to assign a susceptibility rating. A susceptibility analysis uses a weighted rating system which evaluates the toxicity, distance, and likelihood of release of contaminants to adversely affect water quality. The rating for our source is moderate. Potential sources of contamination include transportation corridors, agricultural activities and onsite wastewater treatment. Activities and land use within the watershed can pose potential risk to your drinking water. Under certain circumstances contaminants could be released that would pose challenges to water treatment or even get into 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 completed source water assessment / wellhead protection plan is available for review at Lewisport City Hall.

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.

Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection		Date of Sample	Violation	Likely Source of Contamination				
Inorganic Contaminants												
Fluoride [1025] (ppm)	4	4	1.08	1.08	to	1.08	Jul-20	No	Water additive which promotes strong teeth			
Nitrate [1040] (ppm)	10	10	3.28	3.28	to	3.28	Dec-21	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits			
Disinfectants/Disinfection	on Bypro	ducts										
Chlorine (ppm)	MRDL = 4	MRDLG = 4	0.80 (highest average)	0.6	to	1.02	2022	No	Water additive used to control microbes.			
TTHM (ppb) (Stage 2) [total trihalomethanes] (Annual Sample)	80	N/A	12 (high site)	10 (range o	to of indiv	12 idual sites)	2021	No	Byproduct of drinking water disinfection.			
Household Plumbing Contaminants												
Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	0 (90 th percentile)	0	to	0.125	Jun-20	No	Corrosion of household plumbing systems			

Violations: Routine Monitoring

We received three violations for failing to monitor for Secondary Contaminants, Nitrate and Disinfection B-=Products (HAA / THM) during the 1/1/2022 - 12/31/2022 compliance period. The samples have been scheduled for collection and the public notification for these violations is included with this CCR

PUBLIC NOTICE

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the 1/1/2022 - 12/31/2022 monitoring period we did not monitor or test for Secondary Contaminants, Nitrate and Disinfection By-Products (HAA / THM) and therefore cannot be sure of the quality of your drinking water during that time.

There is nothing you need to do at this time. You do not need to use an alternative (e.g., bottled) water supply.

The table below lists the contaminant(s) we did not properly test for during the last year, how often we are supposed to sample for this contaminant and how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which follow-up samples were taken.

Contaminant	Required sampling	•	Number of samples that	
	frequency	were taken	should have been taken	be) taken
Secondary Contaminants		0	1	2023
Nitrate	Annual	0	1	2023
Disinfection By-Products (Haloacetic Acids & Total Trihalomethanes)	Annual (7/1/22 - 9/30/22)	0	1	2023

What happened? Who is at risk? What is being done?

We had become accustomed to our contract laboratory maintaining our sample collection schedule and sending the collection containers when the samples were due. During the 2022 compliance period, our contract laboratory was sold to a another laboratory and during the transition our sample schedule was not updated and they failed to notify us that these samples were due for collection. Ultimately, Lewisport is responsible for this compliance failure. We have discussed this issue with the Division of Water (DOW) and will be contacting the laboratory annually to confirm the sample schedule for the upcoming year. Once DOW notified us of these violations, we immediately scheduled sample collection dates with the laboratory. No one was at risk because of this violation.

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.

Violation number(s) 2023 - 886, 2023 - 907, 2023 - 8812400