Island Water Department 2023 Water Quality Report

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Meetings: City Hall, 280 Adams Avenue, Island, KY / First Monday of each month at 6:00 pm

We purchase our water exclusively from McLean County Regional Water Commission. They treat water from the Green River which is a surface water source. A Brief Source Water Assessment Summary indicates overall susceptibility is generally moderate. Potential contamination sources of concern include: 2 bridges, 1 hazardous chemical user, 8 underground injection sites, 1 area sewer line, 1 waste generator or transporter, and 1 statewide coverage of row crops, 6 major roads, 14 oil and gas wells, 11 bridges, 1 port, 1 railroad, 3 sewer collection systems, 1 superfund site, 8 hazard underground injection sites, 1 area sewer line, 1 waste generator or transporter, and 1 statewide coverage of row crops, 1 water plant, 6 major roads, 14 oil and gas wells, statewide coverage of power lines, and statewide coverage of residential land, 11 bridges, 1 port, 1 railroad, 3 sewer collection systems, 1 superfund site, 8 hazard chemical sites, 4 underground storage tank facilities, 1 landfill, 2 waste transfer stations, 10 major roads, 38 oil and gas wells and 2 oil and natural gas facilities. The source water assessment can be reviewed by contacting our Superintendent, (270) 486-3992, at the water office located in Island, Kentucky.

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 T		McLean County Regional Water Commission (KY0753505)							
Contaminant	MCL	MCLG	Report	Range of Detection		Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level			Sample	Violation	Contamination	
Inorganic Contaminan	ts	•				•		•	
Barium									
[1010] (ppm)	2	2	0.031	0.031 to	0.031	May-23	No	Drilling wastes; metal refineries; erosion of natural deposits	
Fluoride									
[1025] (ppm)	4	4	0.71	0.71 to	0.71	May-23	No	Water additive which promotes strong teeth	
Nitrate								Fertilizer runoff; leaching from	
[1040] (ppm)	10	10	1.46	0.413 to 1.46		Feb-23	No	No septic tanks, sewage; erosion of natural deposits	
Synthetic Organic Con	taminants	s including P	esticides a	nd Herbici	des	•		•	
Atrazine								Runoff from herbicide used on row	
[2050] (ppb)	3	3	0.6	0.6 to	0.6	Jul-23	No	crops	
Disinfection Byproduct	Precurso	r				•	-	•	
Total Organic Carbon (ppm)			1.87						
(measured as ppm, but	TT*	N/A	(lowest	1.47 to	4.67	2023	No	Naturally present in environment.	
reported as a ratio)			average)	(month	ly ratios)				
*Monthly ratio is the % TOC re	emoval achie	eved to the % TO		`	• -	e 1.00 or great	er for compli	ance.	
Other Constituents									
Turbidity (NTU) TT	A	llowable	Highest Single Lowest				1		
* Representative samples		Levels	_	surement Monthly %		Violation	Likely Source of Turbidity		
Turbidity is a measure of the	No more th	an 1 NTU*			<u> </u>				
clarity of the water and not a	Less than 0.3 NTU in		0.351		99	No	Soil runoff		
contaminant.	95% of monthly samples					,, 110			
Regulated Contaminant T					IS	LAND WA	TER DEI	PARTMENT (KY0750207)	
Contaminant	1		Report	R	ange	Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level	of De	etection	Sample	Violation Contamination		
Disinfectants/Disinfecti	on Bypro	ducts					!	!	
Chlorine	MRDL	MRDLG	1.28					1	
(ppm)	= 4	= 4	(highest average)	0.85 to 1.81		2023	No	Water additive used to control microbes.	
HAA (ppb) (Stage 2)			45					Byproduct of drinking water	
[Haloacetic acids]	60	N/A	(high site	12.7 to 52 (range of individual sites)		2023	No	disinfection water	
TTHM (ppb) (Stage 2)	 		average) 70	(range or in	urviuuai Siles)		1		
[total trihalomethanes]	80	N/A	(high site	22 to	78	2023	No	Byproduct of drinking water	
[total tilialomethanes]	00	IN/A	, ,		(range of individual sites)		No	disinfection.	
Household Plumbing C	ontomino	nte	average)	(range or in	dividual sites)		ļ		
Copper [1022] (ppm)	AL =		0.094						
sites exceeding action level	1.3	1.3	(90 th	0 to	0.63	Sep-23	No	Corrosion of household plumbing	
0	1.3	1.3	percentile)	0 10	, 0.03	3cp-23	110	systems	
Lead [1030] (ppb)	AL =		0						
	15	0	(90 th	0 to	4.7	San 22	No	Corrosion of household plumbing	
sites exceeding action level	13	"	`	U to	, 4./	Sep-23	110	systems	
0		l	percentile)	Dongs =	f Detection				
Sodium (EDA guidanas 11 = 20/II)			Average			-			
Sodium (EPA guidance level = 20 mg/L)			12.3	12.3 to	12.3]			

Secondary contaminants do not have a direct impact on the health of consumers. They are being included to provide additional information about the quality of the water.

Secondary Contaminant	Maximum Allowable	Report	Range of Detection			Date of
Secondary Contaminant	Level	Level				Sample
Chloride	250 mg/l	16.6	16.6	to	16.6	May-23
Fluoride	2.0 mg/l	0.77	0.77	to	0.77	May-23
pH	6.5 to 8.5	7.5	7.5	to	7.5	May-23
Sulfate	250 mg/l	41.6	41.6	to	41.6	May-23
Total Dissolved Solids	500 mg/l	177	177	to	177	May-23

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.