## City of Falmouth Water Quality Report 2023

Water System ID: KY0960126 Manager: Keene Dougherty 859-654-3328 CCR Contact: Dawn King-Hughes 859-654-3328 dhughes@cityoffalmouth.com Mailing Address: 508 East Shelby Street Falmouth, KY 41040 Meeting location and time: Falmouth City Hall, Monthly Third Tuesdays at 7:00 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 our customers with 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. Water is the most indispensable product in every home and we ask everyone to be conservative and help us in our efforts to protect the water system.

The water source for the City of Falmouth is surface water withdrawn from the Licking River and treated at our facility. A source water assessment has been completed and the susceptibility to contamination is moderate for the Licking River. The area around the Licking River is mostly residential but also contains some agricultural, recreational, and light industry activities. There is potential for spills and polluted runoff from areas of row crops and urban and recreational grasses which introduce the potential for herbicide, pesticide, and fertilizer contaminants. Bridges, railroads, wastewater discharges and waste handlers in the area introduce the potential for spills or leaks of hazardous materials. Under certain circumstances activities within the watershed could release contaminants and thereby pose potential risks to your drinking water. These activities and how they are conducted are of interest to our customers because they potentially affect public health and the cost of treating your water. The complete source water assessment may be reviewed at the Northern KY Area Development 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).

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.

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.

The data presented in this report		one-in-a-milli		0	minist	rative regulation	ons in 401 KAI	R Chapter 8. A	As authorized and approved by EPA,
the State has reduced monitoring	requirements	s for certain conta	minants to less of	ten than on	ce per	year because t	he concentratio	ns of these co	ontaminants are not expected to vary
significantly from year to year. S contacting our office during bu			ough representativ	ve, may be 1	nore t	han one year o	ld. Copies of t	his report are	e available upon request by
Regulated Contaminan			Falmouth V	Vater De	enar	tment			
Contaminant			Report		Range		Date of		Likely Source of
[code] (units)	MCL	MCLG	Level	of Detection		0	Sample	Violation	Contamination
Inorganic Contaminan							~		
Barium									
[1010] (ppm)	2	2	0.016	0.016	to	0.016	Jan-23	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride									
[1025] (ppm)	4	4	0.58	0.58	to	0.58	Jan-23	No	Water additive which promotes strong teeth
Nitrate									Fertilizer runoff; leaching from
[1040] (ppm)	10	10	0.448	0.448	to	0.448	Mar-23	No	septic tanks, sewage; erosion of natural deposits
Synthetic Organic Con	taminants	including P	esticides and	Herbici	ides				
Atrazine									Runoff from herbicide used on row
[2050] (ppb)	3	3	BDL	BDL	to	0.4	May-23	No	crops
Disinfectants/Disinfecti	ion Bypro		recursors				5		
Total Organic Carbon (ppm)			1.52						
(measured as ppm, but	TT*	N/A	(lowest	1.15	to	1.99	2023	No	Naturally present in environment.
reported as a ratio)			average)	(mc		ratios)			
*Monthly ratio is the % TOC rer	noval achieve	d to the % TOC r		. `		/	greater for con	npliance.	ł
Chlorine	MRDL	MRDLG	0.81		0		0	1	
(ppm)	= 4	= 4	(highest	0.35	to	1.24	2023	No	Water additive used to control
,			average)						microbes.
HAA (ppb) (Stage 2)			50						
[Haloacetic acids]	60	N/A	(high site	14	to	91	2023	No	Byproduct of drinking water
. 1			average)	(range o	f indiv	vidual sites)			disinfection
TTHM (ppb) (Stage 2)			64			,			
[total trihalomethanes]	80	N/A	(high site	18.2	to	117.09	2023	No	Byproduct of drinking water
L J			average)	(range o	f indiv	vidual sites)			disinfection.
Household Plumbing C	ontamina	nts	1 0 /			,		ļ	l
Copper [1022] (ppm) Round 1	AL =		0.3694						
sites exceeding action level	1.3	1.3	(90 <sup>th</sup>	0.0289	to	0.5697	Aug-21	No	Corrosion of household plumbing systems
0			percentile)				-		
Lead [1030] (ppb) Round 1	AL =		3.9						
sites exceeding action level	15	0	(90 <sup>th</sup>	0	to	18	Aug-21	No	Corrosion of household plumbing
2			percentile)				-		systems
Other Constituents	·		· · · · ·	·				·	·
Furbidity (NTU) TT	Allowable		Highest Single			Lowest	Violation		
* Representative samples	Levels		Measurement		I	Monthly %		Likely Source of Turbidity	
Turbidity is a measure of the	No more the	an 1 NTU*	0.17			100		Soil runoff	
clarity of the water and not a contaminant.	Less than 0.	3 NTU in					No		
containinant.	95% of mor	nthly samples							
	-		Average	R	ange (	of Detection			
Fluoride (added for den	0.7	0.23		o 0.96					
Sodium (EPA guidance level			8.6	8.57					

This report will not be mailed unless requested. Copies are available in our office. To request a copy by mail, please contact our office.