City of Falmouth Water Quality Report 2018

Water System ID: KY0960126 Manager: Andy Richie 859-654-3328 CCR Contact: Andy Richie 859-654-3328 arichie@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The water source for the City of Falmouth is surface water withdrawn from the Licking River and treated at our facility.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).

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.

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.

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.

The data presented in this re	*		-				-			
authorized and approved by I			-						in once per year because the ble, though representative, may	
be more than one year old. C									bie, though representative, may	
									drink 2 liters of water ever	
day at the MCL level for a										
	Allowable Levels		Highest Single Measurement		Lowest	Violation	Likely Source of Turbidity			
					Monthly %					
Turbidity (NTU) TT	No more	than 1 NTU*								
* Representative samples	Less than 0.3 NTU in 95% of monthly samples				100	No	Soil runoff			
of filtered water										
Regulated Contaminant	Test Resu	ılts	Falmouth W	ater De	par	tment				
Contaminant			Report Range		nge	Date of	Violation	Likely Source of		
[code] (units)	MCL	MCLG	Level	of	Det	ection	Sample		Contamination	
Inorganic Contaminants									•	
Barium									Drilling wastes; metal	
[1010] (ppm)	2	2	0.01	0.01	to	0.01	Feb-18	No	refineries; erosion of natural deposits	
Copper [1022] (ppm)	AL =		0.559						Corrosion of household	
sites exceeding action level	1.3	1.3	(90 th	0.018	to	0.872	Jul-18	No	plumbing systems	
0			percentile)						pluitonig systems	
Fluoride									W	
[1025] (ppm)	4	4	1.00	1	to	1	Feb-18	No	Water additive which promotes strong teeth	
Lead [1030] (ppb)	AL =		3.3						Compared and the second second	
sites exceeding action level	15	0	(90 th	0	to	8	Jul-18	No	Corrosion of household plumbing systems	
0			percentile)						prunoing systems	
Nitrate									Fertilizer runoff; leaching	
[1040] (ppm)	10	10	0.57	0.57	to	0.57	Jan-18	No	from septic tanks, sewage; erosion of natural deposits	
Disinfectants/Disinfecti	n Byproe	lucts and Pred	cursors							
Total Organic Carbon (ppm)			1.27							
(measured as ppm, but	TT*	N/A	(lowest	1.00	to	1.85	2018	No	Naturally present in environment.	
reported as a ratio)			average)	(mc	nthl	y ratios)			environment.	
*Monthly ratio is the % TO	C removal	achieved to the '	% TOC remov	al require	d. Aı	nnual average	must be 1.00	or greater f	or compliance.	
Chlorine	MRDL	MRDLG	1.04						Water additive used to control	
(ppm)	= 4	= 4	(highest	0.34	to	2.05	2018	No	water additive used to contro microbes.	
			average)							
HAA (ppb) (Stage 2)			52						Byproduct of drinking water	
[Haloacetic acids]	60	N/A	(high site	0	to	62	2018	No	disinfection	
			average)	(range o	f inc	lividual sites)				
TTHM (ppb) (Stage 2)			73						Byproduct of drinking water	
[total trihalomethanes]	80	N/A	(high site	21	to	78	2018	No	disinfection.	
			average)	(range o	f inc	lividual sites)				

Other Contaminants

Source Water Contamina	ants (unt	reated water)					
Cryptosporidium	0	ΤT	1	12	2018	See note	Human and animal fecal waste
[oocysts/L]		(99% removal)	(positive samples)	(no. of samples)		below	Truman and animar recar waste

Cryptosporidium. We are required to monitor the source of your drinking water for Cryptosporidium in order to determine whether treatment at the water treatment plant is sufficient to adequately remove Cryptosporidium from your drinking water. Cryptosporidium is a microbial pathogen found in surface water. Cryptosporidium was detected in 1 sample of 12 collected from the raw water source for our 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.

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

Secondary Contaminant	Maximum Allowable	Report Range		Date of
Secondary containing	Level	Level	of Detection	Sample
Chloride	250 mg/l	10.8	10.8 to 10	.8 Jan-18
Color	15 color units	8	8 to 8	Jan-18
Corrosivity	Noncorrosive	-0.504	-0.504 to -0.5	504 Jan-18
Iron	0.3 mg/l	0.089	0.089 to 0.0	89 Jan-18
Manganese	0.05 mg/l	0.002	0.002 to 0.0	02 Jan-18
pН	6.5 to 8.5	7.85	7.85 to 7.8	35 Jan-18
Sulfate	250 mg/l	43.8	43.8 to 43	.8 Jan-18
Total Dissolved Solids	500 mg/l	44	44 to 4	4 Jan-18

	Average	Range of Detection
Fluoride (added for dental health)	0.8	0.55 to 0.92
Sodium (EPA guidance level = 20 mg/L)	4.9	4.9 to 4.9

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