Pendleton County Water District #1 South Water Quality Report 2023

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Mailing Address: PO Box 232 Falmouth, KY 41040 Meeting location and time: Water District Office Fourth Friday, monthly at 10 AM

We purchase treated water from the City of Falmouth. The water source for Falmouth is surface water withdrawn from the Licking River and treated at their facility. A source water assessment has been completed. The following is a summary of the susceptibility analysis that is part of the source water assessment. The susceptibility to contamination is moderate for this portion of the Licking River. Land use in the watershed is mostly residential but also contains some agricultural, recreational, and light industrial 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 entire source water assessment report is available at the Northern Kentucky Area Development District at 22 Spiral Drive in Florence, KY 41042 or phone (859)-283-1885

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:

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.

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 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.

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.

Testing Results for Falmouth Water Department

Regulated Contaminan	t Test Re	sults	Falmouth V	ater D	epar	tment				
Contaminant			Report	Range of Detection		Date of		Likely Source of Contamination		
[code] (units)	MCL	MCLG	Level			Sample	Violation			
Inorganic Contaminan	ts									
Barium									77. 111	
[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	Herbic	ides			.4		
Atrazine									Runoff from herbicide used on ro	
[2050] (ppb)	3	3	BDL	BDL	to	0.4	May-23	No	crops	
Disinfectants/Disinfect	ion Bypro	ducts and Pi	recursors							
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)	(monthly ratios)						
*Monthly ratio is the % TOC re	moval achieve	ed to the % TOC r	emoval required.	Annual ave	rage n	nust be 1.00 o	r greater for co	mpliance.		
Other Constituents										
Turbidity (NTU) TT	Allowable Highest		Highest Single	gle Lowest		Violation				
* Representative samples	Levels		Measurement			Monthly %		Likely Source of Turbidity		
Turbidity is a measure of the	No more than 1 NTU*									
clarity of the water and not a contaminant.	Less than 0.3 NTU in 95% of monthly samples		0.17			100	No	Soil runoff		
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Testing Results for Pendleton County Water District #1 South

Regulated Contaminant Test Results Pendleton County Water District #1 South										
Contaminant			Report	Range		Date of		Likely Source of		
[code] (units)	MCL	MCLG	Level	of Detection		Sample	Violation	Contamination		
Chlorine	MRDL	MRDLG	0.88						Water additive used to control	
(ppm)	= 4	= 4	(highest	0.48	to	1.31	2023	No	microbes.	
			average)						111010003.	
HAA (ppb) (Stage 2)			45						Drivers dust of deintring unter	
[Haloacetic acids]	60	N/A	(high site	5	to	98	2023	No	Byproduct of drinking water disinfection	
			average)	(range of	f indi	idual sites)			domicotion	
TTHM (ppb) (Stage 2)			56						Byproduct of drinking water	
[total trihalomethanes]	80	N/A	(high site	25.8	to	111.1	2023	No	disinfection.	
			average)	(range of	f indi	vidual sites)			disilite of ion,	
Hous ehold Plumbing Contaminants										
Copper [1022] (ppm) Roun	AL =		0.6243						Carradar of hausahald	
sites exceeding action level	1.3	1.3	(90 th	0.0195	to	1.8581	Aug-21	No	Corrosion of household plumbing systems	
1			percentile)							
Lead [1030] (ppb) Round 1	AL =		3.9						Corrosion of household	
sites exceeding action level	15	0	(90 th	0	to	8	Aug-21	No	plumbing systems	
0			percentile)						President of ordino	

Unregulated Contaminants (UCMR 5)	average	r	date		
perfluorobutanoic acid (PFBA)	0.003	0	to	0.007	Jan-23
perfluoroheptanoic acid (PFHpA)	0.003	0	to	0.013	Oct-23
perfluorohexanoic acid (PFHxA)	0.002	0	to	0.0092	Oct-23
perfluoropentanoic acid (PFPeA)	0.004	0	to	0.016	Oct-23

Your drinking water has been sampled for a series of unregulated contaminants. Unregulated contaminants are those for which EPA has not established drinking water standards. There are no MCLs and therefore no violations if found. The purpose of monitoring for these contaminants is to help EPA determine where the contaminants occur and whether they should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours. Four of thirty contaminants tested for in 2023 were detected (see table above).

This report will not be mailed unless requested. Copies are available at our office. If you would like a copy mailed to you please contact our office.