Springfield Water and Sewer Commission Water Quality Report

Water System ID: KY1150415
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Public Meeting location and time: 603 West Main Street Second Wednesday each month at 5:00 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 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 source and the water system.

to the environment. It is the potential for chemical susceptibility is generally moderate. Areas of high supply to contamination indicates that this of the susceptibility of the Water Work's water accidents. The overall Susceptibility Ranking for bridges and culverts, row crops, and urban and surface water from intakes on Long Lick Creek Springfield Water Works withdraws and treats susceptibility to contamination, which is part of the this water source is moderate. spilling into the water source from vehicle spills, leaks, or hazardous material accidentally recreational grasses. In and of themselves, these concern at the Allen Branch intake consists of (Willisburg Lake) and Allen Branch. An analysis inspection at 603 West Main Street. The (SWAP). The completed plan is available for completed Source Water Assessment Plan high areas of concern do not represent a danger -ollowing is a summary of the system's

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. Immunocompromised 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).

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, ($\mu g/L$). 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 \$10,000,000,000,000.

Picocuries per liter (pC/L) - a measure of the radioactivity in water.

Milliams now year (mrom/ur) - measure of radiotion shoothed

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.

Information About Lead:

exposure by flushing your tap for 30 seconds to 2 and home plumbing. Your local public water system is drinking water, testing methods, and steps you can take you are concerned about lead in your water, you may minutes before using water for drinking or cooking. If but cannot control the variety of materials used in responsible for providing high quality drinking water, materials and components associated with service lines young children. Lead in drinking water is primarily from health problems, especially for pregnant women and Water Hotline or at http://www.epa.gov/safewater/lead. to minimize exposure is available from the Safe Drinking wish to have your water tested. Information on lead in for several hours, you can minimize the potential for lead plumbing components. When your water has been sitting If present, elevated levels of lead can cause serious



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	Contaminar	nt Test Re	Springfield	d Water and	Sewer Cor	nmission			
Contaminant			Report Range				Date of		Likely Source of
[code] (units)	MCL	MCLG	Level		of Detection		Sample	Violation	Contamination
	Contaminan	its				· · · · · · · · · · · · · · · · · · ·			
Barium									Drilling wastes; metal refineries; erosion of
[1010] (ppm)	2	2	0.004	0.004	to	0.004	Mar-22	No	natural deposits
Fluoride [1025] (ppm)	4	4	0.67	0.67	to	0.67	Mar-22	No	Water additive which promotes strong teeth
[1023] (ppiii)			0107						
Nickel (ppb) (US EPA remanded MCL in	N/A	N/A	4	4	to	4	Mar-22	No	N/A
Nitrate [1040] (ppm)	10	10	0.301	0.301	to	0.301	Mar-22	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
Disinfectar	 ts/Disinfect	ion Bynro	ducts and l	Precursors					
Total Organic		~ J p* (1.75						
(measured as p		N/A	(lowest	1.58	to	2.49	2022	No	Naturally present in environment.
reported as a r	-		average)	(n	nonthly ratios)				
_		removal ach	ieved to the %	TOC removal re-	quired. Annua	l average mus	st be 1.00 or gre	ater for complia	ince.
Chlorine	MRDL	MRDLG	0.90						
(ppm)	= 4	= 4	(highest average)	0.4	to	1.79	2022	No	Water additive used to control microbes.
HAA (ppb) (Stage 2)		46						
[Haloacetic ac	1	N/A	(high site	18	to	62	2022	No	Byproduct of drinking water disinfection
			average)	(range of individual sites)					_
TTHM (ppb)	(Stage 2)		67	(
total trihalom	F	N/A	(high site	27	to	99	2022	No	Byproduct of drinking water disinfection.
•			average)	(range	of individual s	sites)			
Household	Plumbing C	Contamina	nts						
Copper [1022]	AL=		0.29						
sites exceeding	1.3	1.3	(90 th	0.011	to	0.707	Jul-22	No	Corrosion of household plumbing systems
0			percentile)						
Lead [1030] (p	AL=		2						
sites exceeding	15	0	(90 th	0	to	14	Jul-22	No	Corrosion of household plumbing systems
0			percentile)						
Other Con:									
Turbidity (N	y (N Allowable		Highest Single			Lowest	Violation		
* Representati			Measurement			Monthly %	•	Likely Sour	rce of Turbidity
Turbidity is a measure of the clarity of the water and	Less than 0.3 NTU in		0.17			100	No		Soil runoff
	- 570 02 111011111	J 04p.00	Average	Ran	ge of Detection	ın.		L	
Fluoride (ad	lded for dent	al health)	0.9	T					
· racinat (at	tot delle	11C01U1)	0.7	0.52	to	1.48			