

Somerset Water Service Water Quality Report for year 2015

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Meetings: Somerset Water Plant

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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 Somerset's water supply is lake cumberland which is a surface water source. A source water assessment plan was completed by Lake Cumberland Area

Development District. You may contact The Somerset Water Service office (606)875-8549 for more information about the plan. An analysis of the susceptibility of the raw water souce in Lake Cumberland Reservoir to contamination indicates that this susceptibility is low. Within the critical protection area there are five potential sources of contamination that are ranked high, seven-ranked medium and none ranked as low level. Areas of concern include forest and woodlands, row crops, and urban and recreational grassland cover. Other potential contaminants within the greater watershed area include bridges and culverts. KPDES permitted discharges, major roadways, one railroad, underground storage tanks and waste generators or transporters. This is due of the source water withdrawal location's proximity to residential, commerical and industrial areas of Somerset and Pulaski County. The over all potential contaminantion impact on the water quality is low

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).

Some or all of these definitions may be found in this report:

Information About Lead:

Maximum Contaminant Level (MCL) - the highest level of a contaminant that is allowed in drinking water. If present, elevated levels of lead can 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 for pregnant women and young children. 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 the potential for lead exposure by flushing 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.

cause serious health problems, especially 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 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.



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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 once per year because the concentrations of these

No more the Less than 0 95% of more	Levels an 1 NTU*	Measure	ment	Monthly %			Likely Source
Less than 0 95% of mo						Likely Source	
95% of mo	3 NTIL in						
	Less than 0.3 NTU in 95% of monthly samples		0.025		No	Soil runoff	
The second second second							
nt Test R	esults	92					
		Report		Range	Date of	Violation	Likely Source of
MCL	MCLG	Level	of	Detection	Sample		Contamination
minants		10.					Contamination
1	0	1	N/A		2015	015 No	Naturally present in the environment
					1		
ants							
5	0	1.2	1.2	to 1.2	Feb-12	No	
0.58			1,12	11.2	100-12	140	Erosion of natural deposits
its	-12						
					T	T	
2	2	0.02	0.02	to 0.02	Mon 15	No	Drilling wastes; metal refineries;
2.55	-	0.02	0.02	0.02	IVIAI-15	INU	erosion of natural deposits
AL =		0.23					
	1.3		0	to 0.8	Aug 15	No	Corrosion of household plumbin
1,5	1.5	N 99999	U	10 0.8	rug-15	INO	systems
		percentile)					
4	4	0.0	0.0	to 0.0	14-15	Na	Water additive which promotes
7	4	0.9	0.9	10 0.9	Mar-13	INO	strong teeth
ΔΙ =		0			_		
	0		0	to 2	A 1.5	No	Corrosion of household plumbing systems
15	Ü	70.50	U	10 2	Aug-15		
		percentile)				-	
10	10	0.4	0.2	to 0.4	1 15	No	Fertilizer runoff; leaching from
10	10	0.4	0.5	10 0.4	Jun-15	NO	septic tanks, sewage; erosion of natural deposits
ion Bynr	oducts and	Procureore					natural deposits
ion bypi	oddets and					Г	T .
TT*	NI/A	100.000	0.00	to 1.40	2015	NI-	Notice II.
11	IN/A	400000000000000000000000000000000000000			2015	No	Naturally present in environment.
removal ash	viewed to the 0/						I'
		1 9657597697	required. A	iinuai average n	lust be 1.00 or g	reater for co	mpliance.
200			0.24	201		N	Water additive used to control
	2015	No microbes.					
60	NI/A	1 1	10		2017	No	Byproduct of drinking water disinfection
00	N/A	1000000			2015		
			(range of i	ndividual sites)			
90	21/4	Thomas State of	0.5		2017	No	Byproduct of drinking water disinfection.
80 1	N/A	200.000			2015		
Fluoride (added for dental health)		Average			4		
//t				to 1.2	1		
	1 1 1 1 1 1 1 1 1 1	1	1	1	1	1	1