Salyersville Water and Sewer Commission 2018 Water Quality Report

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Meetings: Slayersville Water Plant / Last Tuesday each month at 10:00 am

Salyersville treats surface water from the Licking River. Raw water is pumped from the river intake to our treatment plant where sediment and contaminants are removed. The water is filtered after which disinfectants are added to further protect public health. A susceptibility analysis of the water supply at the river intake indicates a moderate risk of contamination. The relative risk is determined land use activities / contaminant type, proximity to the intake and likelihood of release. Run-off and erosion from logging and construction activities serve as potential threats in addition to wastewater discharges and fuel & chemical spills via road / rail transportation corridors that transect the watershed. Activities and land use within the watershed can pose potential risks to your drinking water, especially during drought. Under certain circumstances, contaminants could be released that would pose challenges to water treatment plants, or contaminate your drinking water. These activities, and how they are conducted, are of interest to the entire community because they potentially affect your health and the cost of treating your water. The complete source water assessment can be reviewed at the Big Sandy Area Development District office in Prestonsburg, KY.

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).

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.

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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. Copies of this report are available upon request by contacting our office during business hours.

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.

	Allowable Levels		Highest Single Measurement		Lowest Monthly %	Violation	Likely Source of Turbidity	
Turbidity (NTU) TT		than 1 NTU*			ivioliting 70			
* Representative samples	Less tha	n 0.3 NTU in	0.38		100	No	Soil runoff	
of filtered water	95% of monthly samples							
Regulated Contaminant Test	Results							
Contaminant [code] (units)	MCL	MCLG	Report	R	Range		Violation	Likely Source of
			Level	of D	tection	Sample	Violation	Contamination
Inorganic Contaminants								
Copper [1022] (ppm) sites exceeding action level	AL = 1.3	1.3	0.03 (90 th	0 t	to 0.146	Aug-16	No	Corrosion of household plumbing
0			percentile)			S		systems
Fluoride								
[1025] (ppm)	4	4	0.90	0.9 t	to 0.9	Nov-17	No	Water additive which promotes strong teeth
Disinfectants/Disinfection By	products an	d Precursors	l l					
Total Organic Carbon (ppm)			1.03					
(measured as ppm, but	TT*	N/A	(lowest	0.12 t	to 1.79	2018	No	Naturally present in environment.
reported as a ratio)			average)	(mont	hly ratios)			
*Monthly ratio is the % TOC 1	emoval achie	eved to the % TO	C removal re	equired. Ann	ual average must	be 1.00 or gre	eater for com	pliance.
Chlorine	MRDL	MRDLG	1.22					Water additive used to control
(ppm)	= 4	= 4	(highest	0.31 t	to 1.76	2018	No	microbes.
			average)					
HAA (ppb) (Stage 2)			47					Byproduct of drinking water
[Haloacetic acids]	60	N/A	(high site	18 t	to 79	2018	No	disinfection water
			average)	(range of in	ndividual sites)			
TTHM (ppb) (Stage 2)			75					Byproduct of drinking water
[total trihalomethanes]	80	N/A	(high site	13.4 t	to 104.3	2018	No	disinfection.
			average)	(range of in	ndividual sites)			
Other Contaminants								
Cryptosporidium	0	TT	2.		12	2018	See note	

Other Contaminants						
Cryptosporidium	0	TT	2	12	2018	See note Human and animal fecal waste
[oocysts/L]		(99% removal)	(positive samples)	(no. of samples)		below Trainer and animal recar waste
0 ' '!' \\						

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 2 samples 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.

Violation: Monitoring & Reporting

We received violations for failing to monitor for Inorganic Compounds during the 1/1/18 - 12/31/18 compliance period. Inorganic Compounds (IOC) are monitored annually by collecting one sample and testing that sample for all the regulated IOCs. IOCs are commonly used in industrial and manufacturing processes. Regulated IOCs include: Arsenic; Antimony; Barium; Beryllium; Cadmium; Chromium; Cyanide; Fluoride; Mercury; Nickel; Selenium and Thallium. We have confirmed with our contract laboratory that the 2019 sample collection schedule includes all required monitoring. The IOC sample will be collected in 2019. We anticipate returning to compliance by12/31/2109. There are no health effects associated with this violation.

Notice by Salyersville Water & Sewer Commission Public Water System ID#: KY0770566

Our water system violated drinking water requirements over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we are doing (did) to correct these situations.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 1/1/18 – 12/31/18 we did not monitor or test for Inorganic Compounds and therefore cannot be sure of the quality of your drinking water during that time.

There is nothing you need to do at this time.

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For more information, please contact Nora Bauer at 606-349-3743 or 401 College Street, Salyersville, KY 41465.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.