Jenkins Water System 2023 Water Quality Report

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Meetings:	Jenkins City Hall / 1st Monday of	f each month at 7:00 PM		

Your Source of water is surface water from Jenkins Lake. In order to maintain our water resource, a water assessment has been completed. This assessment is part of the Letcher County Water Supply Plan. An analysis of the susceptibility of the Jenkins water supply to contamination is generally moderate; however, there are a few areas of concern. Non-Point sources such as erosion due to mining, logging, sewer lines and roads (road salting) are the most prominent sources of contamination. Also, the new HWY 23 by-pass has left bare rock and soil which is subjet to erosion. Activities and land uses upstream of Jenkins source of water can pose potential risks to your drinking water. Under certain instances, contaminants could be released that would pose challenges to water treatment, or even get into 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 water. The completed plan is available for inspection at Jenkins City Hall.

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.

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.

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.

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 measured in this man									
			-			-		apter 8. As authorized and approved rations of these contaminants are	
not expected to vary significant	0	•			•				
available upon request by con				uore, mougn re	presentati • e, 1	ing of more m	un one yeur		
Regulated Contaminant	-	-	Jenkins Wa	ter System					
Contaminant			Report	1	nge	Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level	of Det	ection	Sample	Violation	Contamination	
Inorganic Contaminant	S		•			· ·		•	
Barium									
[1010] (ppm)	2	2	0.047	0.047 to	0.047	Jun-23	No	Drilling wastes; metal refineries; erosion of natural deposits	
Fluoride									
[1025] (ppm)	4	4	0.64	0.64 to	0.64	Jun-23	No	Water additive which promotes strong teeth	
Nitrate								Fertilizer runoff; leaching from	
[1040] (ppm)	10	10	0.254	0.254 to	0.254	Apr-23	No	septic tanks, sewage; erosion of natural deposits	
Disinfectants/Disinfection	on Bypro	ducts and Pr	ecursors						
Total Organic Carbon (ppm)			1.43						
(measured as ppm, but	TT*	N/A	(lowest	1.00 to	2.76	2023	No	Naturally present in environment.	
reported as a ratio)			average)	(monthl	y ratios)				
*Monthly ratio is the % TOC re	emoval achie	eved to the % TC	C removal requi	red. Annual ave	erage must be 1	.00 or greater	for complia	nce.	
Chlorine	MRDL	MRDLG	1.21			-			
(ppm)	= 4	= 4	(highest average)	0.27 to	1.8	2023	No	Water additive used to control microbes.	
HAA (ppb) (Stage 2)			75						
[Haloacetic acids]	60	N/A	(high site	35 to	66	2023	YES	Byproduct of drinking water	
			average)	(range of ind	ividual sites)			disinfection	
TTHM (ppb) (Stage 2)			75		,				
[total trihalomethanes]	80	N/A	(high site	41 to	115	2023	No	Byproduct of drinking water	
			average)	(range of ind	ividual sites)			disinfection.	
					,			•	
Household Plumbing Co	ontamina	nts							
Copper [1022] (ppm) Round 1	AL =		0.012						
sites exceeding action level	1.3	1.3	(90 th	0.009 to	0.019	Aug-21	No	Corrosion of household plumbing	
0			percentile)					systems	
Other Constituents			, ,				•	1	
Turbidity (NTU) TT Allowable Highest S				le	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 Less than 0.3 NTU in			0.06 100		100	No	Soil runoff		
contaminant.	95% of monthly samples		0.00						
	1.2.2.2.1110		Average	Range of	Detection		1		
Sodium (FPA guidance level	= 20 mg/L		18.0	18 to	18				
Sodium (EPA guidance level = 20 mg/L)			10.0	10 10	10	I			

HAA(ppb) Individual Site	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Violation
007	67.75	65.50	50.50	50.25	Yes
041	74.75	73.25	54.75	55.25	Yes

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

Secondary Contaminant	Maximum Allowable	Report	Rang	Date of	
	Level	Level	of Detec	Sample	
Chloride	250 mg/l	37.1	37.1 to	37.1	Apr-23
Copper	1.0 mg/l	0.009	0.009 to	0.009	Apr-23
Corrosivity	Noncorrosive	-0.943	-0.943 to	-0.943	Apr-23
Fluoride	2.0 mg/l	0.64	0.64 to	0.64	Apr-23
Sulfate	250 mg/l	55.7	55.7 to	55.7	Apr-23
Total Dissolved Solids	500 mg/l	253	253 to	253	Apr-23

Haloacetic acids, or HAA. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Violation #: 2023-9006684 & 2023-9006685 The Jenkins Water system recently received violations for compliance periods 01/01/2023 - 03/31/2023 & 04/01/2023 - 06/30/2023. These violations were due to sample results for Haloacetic Acids (HAA's) being above the Maximum Contaminant Level (MCL) of 0.060 mg/L by averaging quarterly samples at the sample location for 12 months, which determines the Locational Running Annual Average (LRAA). Samples taken during these compliance periods indicated and LRAA of .075 mg/L and .073 mg/L, respectively. We are working to correct these issues by changing the types and levels of disinfectants, removing natural organic matter, and increasing flushing of water lines. Please contact us at (606) 832-4218 if you have any questions.