

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF SAFE DRINKING WATER

2022	ANNUAL DRINKING WATER QUALITY REPORT
	NAME: Millville Municipal Authority
Este informe contiene información importa ó hable con alguien que lo entienda. (Tr someone translate it for you, or speak with	ante acerca de su agua potable. Haga que alguien lo traduzca para usted, nis report contains important information about your drinking water. Have n someone who understands it.)
WATER SYSTEM INFORMATION:	
This report shows our water quality and whater utility, please contact Steve Phares_	nat it means. If you have any questions about this report or concerning your at . We want you to be informed about your water supply. If you ur regularly scheduled meetings. They are held
on the third Tuesday of every month at 7:0	0 pm at the Millyille Municipal Authority Office
Ave, Millville PA 17846	The manifestal Additionty Office, located at 136 Morenead
SOURCE(S) OF WATER:	
Our water source(s) is/are: (Name-Type-L	ocation)
The North Well, (001), and the Infiltration	Gallery, (004), located outside the water treatment plant at 200 West Third
Street.	
-	
of Contamination listed in your Source Water high] risk of significant contamination. A Assessment Summary Reports el ibrary	(s) was completed by the PA Department of Environmental Protection (Pa. source(s) of is/are potentially most susceptible to [insert potential Sources er Assessment Summary]. Overall, our source(s) has/have [little, moderate, summary report of the Assessment is available on the Source Water web page: www.elibrary.dep.state.pa.us/dsweb/View/Collection-10045 , palities, water supplier, local planning agencies and PADEP offices. Copies ew at the Pa. DEP North Central

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).

Regional Office, Records Management Unit at (570) 3273636.

MONITORING YOUR WATER:

We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, 2022. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

DEFINITIONS:

Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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.

Minimum Residual Disinfectant Level (MinRDL) - The minimum level of residual disinfectant required at the entry point to the distribution system.

Level 1 Assessment – A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment – A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

Mrem/year = millirems per year (a measure of radiation absorbed by the body)

pCi/L = picocuries per liter (a measure of radioactivity)

ppb = parts per billion, or micrograms per liter ($\mu g/L$)

ppm = parts per million, or milligrams per liter
(mg/L)

ppq = parts per quadrillion, or picograms per liter

ppt = parts per trillion, or nanograms per liter

DETECTED SAMPLE RESULTS:

Chemical Cont	aminants		874 F. S.			< 35 A A A A A A A A A A A A A A A A A A		Anther the control of
Contaminant	MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
HAA5	60	NA	27.8	16.1-60.0	PPB	2022	N	BYPRODUCT OF DRINKING WATER DISINFECTION
TTHM	80	NA	32.8	16.9-50.1	PPB	2022	N	BYPRODUCT OF DRINKING WATER DISINFECTION
NITRATES	10	10	1.2	1.2	PPM	2022	N	RUN OFF FROM FERTILIZER USE
CHLORINE	4	4	1.32	0.87-1.84	PPM	2022	N	WATER ADDITIVE USED TO CONTROL MICROBES

^{*}EPA's MCL for fluoride is 4 ppm. However, Pennsylvania has set a lower MCL to better protect human health.

Entry Point Disinfectant Residual								
Contaminant	Minimum Disinfectant Residual	SU 17, 47 TO THE STATE OF STATE	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination	
Sodium Hypochlorite	0.50	0.90	0.90-2.33	ppm	2022		Water additive used to control microbes.	

Lead and Copper								
Contaminant	Action Level (AL)	MCLG	90 th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination	
Lead	15	0	8.69	ppb	0	N	Corrosion of household plumbing.	
Copper	1.3	1.3	0.826	ppm	0	N	Corrosion of household plumbing.	

Contaminants	to Assessments/Con	MCLG		Violation	Sources of Contamination
Total Coliform Bacteria	Any system that has failed to complete all the required assessments or correct all identified sanitary defects, is in violation of the treatment technique requirement		See detailed description under "Detected Contaminants Health Effects Language and Corrective Actions" section	N	Naturally present in the environment.

Microbial (related to E. coli)								
Contaminants	MCL	MCLG	Positive Sample(s)	Violation Y/N	Sources of Contamination			
E. coli	Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> .	0	0	N	Human and animal fecal waste.			
Contaminants	T	MCLG	Assessments/ Corrective Actions	Violation Y/N	Sources of Contamination			
E. coli	Any system that has failed to complete all the required assessments or correct all identified sanitary defects, is in violation of the treatment technique requirement	N/A	See description under "Detected Contaminants Health Effects Language and Corrective Actions" section	N	Human and animal fecal waste.			

Contaminant	MCL	MCLG	Level Detected	Sample Date	Violation Y/N	Source of Contamination
Turbidity	TT=1 NTU for a single measurement	0	0.15	071222	N	Soil runoff
	TT= at least 95% of monthly samples<0.3 NTU		100	2022	N	

Total Organic Carbon (TOC)				
Range of % Removal Contaminant Required TOC	Range of percent removal achieved	Number of quarters out of compliance	Violation Y/N	Sources of Contamination
100			N	Naturally present in the environment

DETECTED CONTAMINANTS HEALTH EFFECTS LANGUAGE AND CORRECTIVE ACTIONS:
CORRECTIVE ACTIONS:
OTHER VIOLATIONS:
A plant inspection was performed by the DEP and the following deficiencies resulted in a notice of violation.
The number of start ups and shutdowns were not being recorded.
The pressure decay test upper control limits were being recorded above the maximum limit. It was found that the
results weren't being divided by the number of minutes in the test, resulting in inaccurate values.
The LRV calculation needs to be checked and verified for accuracy.
Alarm and shutdown capabilities were not being tested quarterly.
The water system has not properly implemented EPA method 334 for sampling and analysis.
15 minute turbidity recordings do not accurately reflect start ups and shutdowns when the plant is unmanned. The
computer needs to be reprogrammed for 1 minute turbidity recording.

EDUCATIONAL INFORMATION:

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 can 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, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater run-off, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA and DEP prescribes regulations which limit the amount of certain

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contaminants in water provided by public water systems. FDA and DEP regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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 can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800–426-4791).

Information about Lead

Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Milly desponsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing dushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about leading your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and step to the potential of the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential of the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline or the potential for lead exposure is available from the Safe Drinking Water Hotline from	ng by ad ps
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