Annual Drinking Water Quality Report

MITCHELLSVILLE PWD

IL1655200

Annual Water Quality Report for the period of January 1 to December 31, 2023

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

The source of drinking water used by MITCHELLSVILLE PWD is Purchased Ground Water

For more information regarding this report contact

Phone (618) 534.1879

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcaio ó hable con alguien que lo entienda bien.

Board Meetings - 4:15 pm Location - 125 Triple S. Rd Jan. 16, 2024 - Tues April 16, 2024 - Tues July 16, 2024 - Tues Oct. 15, 2024 - Tues

Source of Drinking Water

The sources of drinking water (both tap water and portiled 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 storm water runoff, 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 storm water runoff, and residential uses.

synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, production, where runoff, and septic systems.

Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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 EPAs Safe Drinking Water Hotline at (800) 426-4791.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must 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. We 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 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 brinking water Hotline or at http://www.epa.gov/safewater/lead.

Source water Name

CC01-MITCHELLSVILLE PHD MASTER

CC02-MITCHELLSVILLE PWN MASTER

FF IL1515050 TP04

FF 1655300 TP01

Type of Waler

Report Status Location

West side of Righway 145 South at County Line (Pope and Saline)

Intersection of Route 13 and Shawnee Hills Road

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04/14/2024 - IL1655200_2023_2024-04-14_16-25-38.PDF

He want our valued sustaners to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop source Water, Susceptibility to Contamination beteinination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA.

Information, the Illinois EPA has determined that the Saline Valley community water supply's source water is susceptible to contamination. As such, the Illinois EPA has provided 5-year recharge area calculations for the wells. The land use within the recharge area of the wells was analyzed as part of this mangamese, sulfate and total dissolved solids (TDS) exceed the 35 Illinois Administrative. Code Part 620.410 Class I: Potable Resource Groundwater operated Eagle No. 2, an underground mine with a coal processing plant and refuse disposal areas on the surface. The refuse disposal areas are located east l above ground fuel storage tank, I below ground fuel storage tank, I warehouse, 1 waste disposal, and I grain elevator The Peabody Coal Company (PCC) there are 7 potential sources of groundwater contamination that could pose a hazard to groundwater utilized by Saline Valley's wells. These include 2 wells, should provide an adequate degree of filtration to prevent the movement of pathogens into the wells Source of Mater SALINE VALLEY CONSERVANCY DISTRICTTO unconfined sand and gravel aquifer, the Illinois EPA evaluated the well hydraulics associated with the Milstone PMD's well field fractured rock aquifer systems as sensitive and these systems must perform routine source water monitoring". Because the community's wells are open to an wells are properly constructed with sound integrity and proper site conditions; all potential routes and sanitary defects have been mitigated such that the sounce water is adequately protected, monitoring data did not indicate a history of disease outbreak; and the sanitary survey of the water supply did not indicate viral contamination threat. However, having stated this, the "(U.S.) EPA is proposing to require States to identify systems in karst, gravel, and anticipation of the U.S. EPA's proposed Ground Water Rule, the Illinois EPA has determined that the Millstone PWD's wells are not vulnerable to viral Source water protection initiatives by the facility, the Millstone PWD's source water is not susceptible to VOC and IOC contamination. Furthermore, in the above site data table have been properly abandoned. The community's source water is susceptible to SOC contamination from non-point sources related to information provided by Millstone PWD's water supply officials, this lime sludge lagoon has changed its status (sludge removed) and the four wells listed in the groundwater pumped by the Milistone PWD community water supply wells. This site is a line sludge lagoon located 50 feet from Well #5. Source of Water: MILLSTONE PWDTo determine Millstone PWD's susceptibility to groundwater contamination, a Well Site Survey, published in 1994 by the Illinois PCC will be required to implement an adequate corrective action at the site to remediate groundwater contamination. This determination is based on the evaluation of the following criteria considered during the Vulnerability Waiver Process. the community's Based on information obtained in this document, one potential source of groundwater contamination is present that could pose a hazard to There is extensive groundwater contamination in the vicinity of the refuse disposal areas. Concentrations of chloride, iron, Also, as a result of monitoring conducted at the wells and entry point to the distribution system, the land-use activities, and a The amount of overburden

Lead and Copper

safety. Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. Action Level Goal (ALG): The level of a contaminant in disaking water below which there is no known or expected lisk to health. ALGs allow for a margin of

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	08/24/2022	
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	ļ I	(AL)
	0.211	Percentile
	65	AL ALCE OVER
	mợð	Units
	R.S	Violation
wood preservatives; Corrosion of household plumbing systems.	Process of the second of the s	Violation Likely Source of Contamination

Water Quality Test Results

Definitions:

Level 1 Assessment

Level 2 Assessment:

Maximum Contaminant Level or NCL

Maximum Contaminant Level Goal or MCLG:

Maximum residual disinfectant level or

Maximum residual disinfectant level goal or MRDLG:

mrem:

11.01

: qdd

: wad

Treatment Technique or Tr

The following tables contain scientific terms and measures, some of which may require explanation

Regulatory compliance with some MCLs are based on running annual average of monthly samples

A Level i 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.

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

The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible

The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow

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.

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.

millizems per year (a measure of radiation absorbed by the body)

micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

A required process intended to reduce the level of a contaminant in drinking water.

By-product of drinking water disinfection.	æ	qdđ	80	the total				te result
					35 = 70	57	2023	Total Trihalomethanes
By product of drinking water disinfection.	S	वंदित	60	the total				(CHAC)
				No.	9.7 . 20	16	2023	Haloacetic Acids
Water additive used to control micropes	2	נהמלק	MRDL = 4	777 ELLOG # 4	1			
				מותפא	- 4 - 1 7	th.	2023	Chlorine
Violation likely Source of Contamination	Viciation	in	×CT.	5,000	Detected	Detected	Date	Products
				İ	Highest Level Pange of Lovels	Highest Level	Collection	Distriction and

Regulated Contaminants

Consumer Confidence Rule

The Consumer Confidence Rule reguli	res communicy wa	The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the challenge water delivered by the systems.
Violation Type	Violation Berin	
	tegan began	Violation Explanation
CCR REPORT	07/01/2023	07/21/2023 Ne falled to some
		you about the quality of our drinking water and characterizes the risks from exposure to
		The state of the s

on to maintain compliance with E.P.A. and to keep our customers informed and up to date. assure that we meet all necessary and required notification procedures and deadlines from now quality of our drinking water by the required due date. We will take the necessary measures to Confidence Report by the Illinois E.P.A. deadline. By doing so, we did not inform you of the The Mitchellsville Water District failed to provide our customers a copy of the Consumer

Lead and Copper

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. Action Level: The concentration of a contaminant which, if exceeded, triggers ALGs allow for a margin of

Lead	C. Pilott	Compar	bedo and Copper
2023	2023		Date Sampled
0	1.3		MCLG
	1.3	(AL)	Action Level
	0.126	Percentile	90th
	0	AL	# Sites Over U
	ppm		Ther
	꾿		ements which a
wood preservatives; Corrosion of household	Erosion of natural deposits; Leaching from	Likely Source of Contamination	hits Volerice Title System must follow.

Water Quality Test Results

2023

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plumbing systems

Corrosion of household plumbing systems, Brosion of natural deposits.

Definitions:

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M	H	
Ausesament	Assessment:	

Maximum Contaminant Level or ECL:

Maximum Contaminant Level Goal or MCLG:

Maximum residual disinfectant level or

goal or MRDLG: Maximum residual disinfectant level

na :

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millizems per year (a measure of radiation absorbed by the body)

micrograms per liter or parts per billion - or one ounce in 7,150,000 gallons of water

Regulated
Contaminants ~
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Disinfection ay- Products	Collection Date	Pelected	Range of Levels	STON S	MOT.	Chics	Violetio	Violation Likely Source of Contamination
Chlorine	2023	L.	1.4 2	NEDLG # 4	MRDL = 4	mad	Z .	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2023	5	8.3 - 36	No goal for the total	60	מקם,	z	By product of drinking water disinfection
Total Trihalomethanes (TTHM)	2023	gy Gy	33.6 - 81	No goal for the total	80	ਰਕੰਟ	×	By-product of drinking water disinfection
Inorganic Contaminants	Collection Date	Highest Level	Range of Levels Detected	MCIA	WCL	Units	Violation	Likely Source of Contamination
Arsenic - While your drinking water meets	07/19/2021	5.98	5.98 - 5.98	0	7.0	}		
drinking water meets EPA standards for arsenic, it does contain low levels of arsenic EPAs			1	c	10	ģģb	2 2	Erosion of natural deposits; Runoff from outhards; Runoff from glass and electronics production wastes.
standard balances the current understanding of arsenics possible health effects of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.	07/19/2021	9.0197	0.0157 - 0.0157	2	N	ppm		
skin damage and culatory problems								
Barium	07/19/2021	0197	1	2	2	māď	z	Discharge of drilling wastes; Discharge from metal refineries; Brosion of natural deposits
	0//19/2021	0.44	0.44 - 0.44	4.	4.0	mdď	z	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from
	- Andrews	000	23100 - 23100			qđđ	z	Erosion from naturally occuring deposits. Used in water softener regeneration.

- SALINE VALLEY CONSERVANCY DISTRICT -

	0		Goal	Contaminant Level	MULTINE
monthly sample.	7 5000 1	Level	Contaminant	Maximin Vota	一つうすりこうのごうちしに
F	1		SOSTEINE	Highest No. of	
		Contaminant Level		Maximum Highest No. of Fecal Coliform or E.	
0	Samples	Fecal Coliform	Positive E. Coli or	Total No. of	1
z				Violation	
Naturally present in the environment.			Execty South of Contamination		

Lead and Copper

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	ר ר ר ה	Carre			Lead and Copper	contamiliant which, if exceeded, triggers treatment	Action Level: The	
	2023	2000			Date Sampled	0.1	Concentration of	
	1.3				N. T.	a concaminant		
	اسر ، (ب		(AL)	ACCTOR PEAGT	Act : T	Which, if excee		
	0.17		Percentile	90th		ded, triggers		
	O		AL	# Sites Over	TO STORY	treatment or		
	mdd			Units	TEGUTIE	1		
	ĸ		101	Violation	ments which a			TACT TITLE
wood preservatives; Corrosion of hous	Erosion of natural deposits: Leaching		Likely Source of Contamination	Table of total on.	or constructionents which a water system must follow		of a margin of	to near In Alice allow fine

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Level 2 Assessment

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