Annual Drinking Water Quality Report

MAROA

IL1150300

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

MAROA is Ground Water

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

Source of Drinking Water

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 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.

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 storm water 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 BPAs Safe Drinking Water Hotline at (800) 426-4791.

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. E2A/DC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe prinking water Hotline (800-426-4791).

serious health problems, especially for pregnant drinking or cooking. If you are concerned about If present, elevated levels of lead can cause is primarily from materials and components Drinking Water Hotline or at vater tested. Information on lead in drinking lead in your water, you may wish to have your We cannot control the variety of materials used associated with service lines and home plumbing women and young children. Lead in drinking water ninimize exposure is available from the Safe for 30 seconds to 2 minutes before using water ctential for lead exposure by flushing your tap itting for several hours, you can minimize the umbing components. When your water has been testing methods, and steps you can take to in

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WELL 3 (47724) WELL 2 (47723) Source Water Name

Type of Water

Report Status

Active Location

SOUTH OF PLANT

GW

GW

Active

SE OF PLANT

04/11/2024 . IL1150300_2023_2024-04-11_14-26-59.PDF

Source Water Assessment

We want our valued customers 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 by City Hall or call our water operator at 2177943842. To view a summary version of the completed Source Water Assessments, including: Importance of Source Water, Susceptibility to Contamination Determination, and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA. website at http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl.

aquifer types would be required to perform routine source water monitoring. Because the community's wells are constructed in a confined aquifer, which should provide an adequate degree of protection to prevent the movement of pathogens into the wells, well hydraulics were not considered to be a significant a history of disease outbreak; and the sanitary survey of the water supply did not indicate a viral contamination threat movement; all potential routes and sanitary defects have been mitigated such that the source water is adequately protected; monitoring data did not indicate vulnerable to viral contamination. This determination is based upon the evaluation of the following criteria during the Vulnerability Waiver Process: the community's wells are properly constructed with sound integrity and proper site conditions; there is a hydrogeologic barrier that restricts pathogen including: momitoring conducted at the wells; monitoring conducted at the entry point to the distribution system; and the available hydrogeologic data for the wells. In amticipation of the U.S. EPA's proposed Ground Water Rule, the Illinois EPA has determined that Maroa's community water supply wells are not Based on information provided by the City of Maroa water supply officials, Shell Oil Co. and Edwards Fertilizer are no longer in business. The Illinois EPA has determined that Maroa Wells #2 and #3 are not susceptible to IOC, VOC, or SOC contamination. This determination is based on a number of criteria Source of Water: MAROATo determine Maroa's susceptibility to groundwater contamination, a Well Site Survey, published in 1989 by the Illinois EPA, was reviewed. Based on the information contained in this document, five potential sources of groundwater contamination are present that could pose a hazard to groundwater pumped by the Maroa community water supply wells. These include a fertilizer/pesticide commercial application or warehouse, a factor in the vulnerability determination. manufacturing/orocessing of chemicals, two below ground fuel storages, and a well. Records indicate that the inactive well has been properly abandoned. EPA is proposing to require States to identify systems in karst, gravel and fractured rock aquifer systems as sensitive. However, having stated this, the Water systems utilizing these

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. ALGs allow for a margin of

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow

Lead	Copper	Lead and Copper Date
2023	2023	Date Sampled
0	1.3	MCLG
15	1.3	Action Level (AL)
0	1.86	90th Percentile
1	ហ	# Sites Over AL
qdd	m d đ.	Units
N	Z	Violation
Corrosion of household plumbing systems; Erosion of natural deposits.	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	Violation Likely Source of Contamination

Water Quality Test Results

Avg:

Definitions:

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

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

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.

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 or 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 or 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 The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDIGs do not reflect the benefits of the use of disinfectants to control microbial contaminants. not applicable

millirems 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.

: ddd mrem: na:

goal or MRDLG:

MRDL:

Maximum Contaminant Level or MCL:

Level 2 Assessment:

Level 1 Assessment:

Water Quality Test Results

: mdd

Treatment Technique or TT:

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.

Regulated Contaminants

Iron	Fluoride	Barium	health effects such as skin damage and circulatory problems.	cause cancer in humans at high concentrations and is	low levels of arsenic, which is a mineral known to	continues to research the health effects of	removing arsenic from drinking water. EPA	of arsenics possible health effects	contain low levels of		Arsenic - While your	Inorganic Contaminants	Total Trihalomethanes (TTHM)	Haloacetic Acids (HAA5)	Chlorine	Disinfectants and Disinfection By- Products
11/10/2021	11/03/2021	11/03/2021				1					2023	Collection Date	2023	2023	2023	Collection Date
0.199	0.69	0.372									9	Highest Level Detected	٧	W	0.8	Highest Level Detected
0.105 - 0.199	0.69 - 0.69	0.372 - 0.372									11.3 - 11.3	Range of Levels Detected	9 1 9	2.6 - 2.6	0.65 - 1	Range of Levels Detected
	4	N									0	MCLG	No goal for the total	No goal for the total	MRDLG = 4	MCIG
1.0	4.0	N.									10	MCT	80	60	MRDL = 4	MCL
mďď	mđ đ	થવેવ									व्वेत	Units	वृवेंत	व्वेत	māď	Units
И	N	И								7/81	N	Violation	Я	И	Я	Violation
This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.	Erosion of natural deposits; Wazer additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.								orchards; Runoff from glass and electronics production wastes.	~ .	Likely Source of Contamination	By-product of drinking water disinfection.	By-product of drinking water disinfection.	Water additive used to control microbes.	Likely Source of Contamination

Mitrate [measured as Mitrogen]	2023	ц	0.27 - 1.17	10	10	wāđ	И	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Witrite [measured as Witrogen]	2023	0.15	0 - 0.15	д	ц	wod	и	Runoff from fertilizer use; Leaching from septic tanks, sewage; Brosion of natural deposits.
Sodium	11/03/2021	159000	159000 - 159000			qoʻd	Я	Erosion from naturally occuring deposits. Used in water softener regeneration.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	07/27/2022	0.49	0.49 - 0.49	0	υn	pci/L	И	Erosion of natural deposits.
Gross alpha excluding radon and uranium	12/02/2019	0.45	0.45 - 0.45	0	15	pci/L	N	Erosion of natural deposits.

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