

PATRIOT WATER DEPARTMENT

IN5278001



QUALITY ON TAP: 2023 WATER REPORT

REGULATED CONTAMINANTS							
Disinfectant	Date	Highest RRA	Unit	Range	MRDL	MRDLG	Typical Source
Chlorine	2023	1	ppm	0.3 - 1.6	4	4	Water additive used to control microbes
Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
Arsenic	2/21/2023	0.5	0.4 - 0.5	ppb	10	0	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium	2/21/2023	0.065	0.025 - 0.065	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Dibromochloromethane	7/10/2023	0.00724	0.00514 - 0.00724	MG/L	0.1	0	
Fluoride	2/21/2023	0.31	0 - 0.31	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nickel	2/21/2023	0.002	0 - 0.002	MG/L	0.1	0.1	
Nitrate - Nitrite	2/21/2023	6.87	0.57 - 6.87	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Selenium	2/21/2023	0.9	0.5 - 0.9	ppb	50	50	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Radiological Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
Gross Alpha, Excl. Radon & U	3/8/2022	2.54	2.54	pCi/L	15	0	Erosion of natural deposits
Radium - 226	3/8/2022	0.19	0.14 - 0.19	pCi/L	5	0	

REGULATED CONTAMINANTS								
Disinfection Byproducts	Sample Point	Period	Highest LRAA	Range	Unit	MCL	MCLG	Typical Source
Total Haloacetic Acids (HAA5)	Pleasant Tank	2022-2023	3	3.4 - 3.4	ppb	60	0	By-product of drinking water disinfection
Total Haloacetic Acids (HAA5)	Springbranch Tank	2022-2023	4	4.46 - 4.46	ppb	60	0	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)	Pleasant Tank	2022-2023	14	14.2 - 14.2	ppb	80	0	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)	Springbranch Tank	2022-2023	20	19.9 - 19.9	ppb	80	0	By-product of drinking water disinfection

VIOLATIONS			
Violation Period	Analyte	Violation Type	Violation Explanation
No violations during this period. There are no additional required health effects notices. There are no additional required health effects violation notices.			

DEFICIENCIES					
Date Identified	Facility	Code	Activity	Due Date	Description
3/9/2020	Storage Tank #2	FW08	Sanitary Survey Letter Response	4/6/2023	Related appurtenances are not appropriately constructed and located
3/9/2020	Storage Tank #2	FW08	Sanitary Survey Corrective Action / Plan	3/10/2024	Related appurtenances are not appropriately constructed and located
3/9/2020	Storage Tank #7	FW08	Sanitary Survey Letter Response	4/6/2023	Related appurtenances are not appropriately constructed and located
3/9/2020	Storage Tank #7	FW08	Sanitary Survey Corrective Action / Plan	3/10/2024	Related appurtenances are not appropriately constructed and located

[What to Expect](#)

Patriot Water has been replacing aging water meters across the community with new, enhanced equipment allowing for more accurate readings and better water efficiency. The project which began February 1, 2024 will replace approximately 4,500 meters, which have become less effective due to old age.

Many of Patriot Water meters are over 16 years old. By replacing customers meters with this new advanced water meter technology, Patriot Water is able to better serve water customers with more accurate data on water consumption and detect and stop leaks in a timely manner. This will allow drive by reading to be more efficient, and allow for the whole water system to be read in two days.

If you have any additional questions or concerns, please contact Patriot Water at 812-594-2243, M-F 8am -4pm.

PATRIOT MUNICIPAL UTILITIES WATER METER REPLACEMENT PROJECT

Patriot Municipal Utility
352 Third Street
Patriot, IN 47038

PRSRT STD
US POSTAGE
PAID
LOUISVILLE KY
PERMIT #1225

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

Once again we are proud to present our annual water quality report covering all testing performed between January 1 and December 31, 2023. As in years past, we are committed to delivering the best quality drinking water possible. To that end, we remain vigilant in meeting the challenges of new regulations, source water protection, water conservation, and community outreach and education while continuing to serve the needs of all of our water users. Thank you for allowing us to continue providing you and your family with quality drinking water.

We encourage you to share your thoughts with us on the information contained in this report. Should you ever have any questions or concerns, we are always available to assist you.

For more information about this report, or for any questions relating to your drinking water, please call Joey Duckworth at **(812) 594-0135 (cell)** Maintenance Supt.

Community Participation:

You are invited to participate in our public forum and voice your concerns about your drinking water. We meet the 1st Tuesday of each month beginning at 5 p.m. at **Patriot Town Hall, 352 Third Street, Patriot, IN 47038.**

- **Town Board President:** Elizabeth Thomas
- **Member:** Tony Rider
- **Member:** Theresa Winter
- **Clerk Treasurer:** Linda Fisk

Phone: (812) 594-2243 - Fax: (812) 594-2197

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 EPA's Safe Drinking Water Hotline at **(800) 426-4791.**

Where Does My Water Come From?

The Patriot Water Company customers are fortunate because we enjoy an abundant water supply from 5 wells. Patriot treats your water using fluoride and cl2 gas to remove or reduce harmful contaminants that may come from the source water. We have completed a well head protection plan. To view a copy of this report, please contact Patriot Municipal Utilities.

Source Water Assessment

A Source Water Assessment Plan (SWAP) is now available at our office. This plan is an assessment of the delineated area around our listed sources through which contaminants, if present, could migrate and reach our source water. It also includes an inventory of potential sources of contamination within the delineated area, and a determination of water supply's susceptibility to contamination by the identified potential sources.

According to the Source Water Assessment Plan, our water system has a susceptibility rating of **MEDIUM**. If you would like to review the Source Water Assessment Plan, please feel free to contact our office.

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 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>.

This institution is an equal opportunity provider.

MANY PEOPLE HAVE CHANGED PHONE NUMBERS! DO WE HAVE YOUR CURRENT INFORMATION?

In order to better serve you, please tell us your most current contact information.

3 WAYS TO UPDATE:

Mail: Mail this form or drop off to:
352 Third Street, Patriot, IN 47038

Phone: Call us at 812-594-2243

Fax: Fax this form to 812-594-2197

Name: _____

Address: _____

Phone #: _____

Home or Cell (circle one)

Email: _____

THANK YOU!

Town of Patriot Municipal Utilities

REPORTdefinitions



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

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 Contaminant Level or 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 residual disinfectant level goal or 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.

Maximum residual disinfectant level or 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.

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

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

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

NA: not applicable.

mrem: millirems per year (a measure of radiation absorbed by the body).

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

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.

LEAD & 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 safety.

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

SAMPLING RESULTS

During the past year we have taken hundreds of water samples in order to determine the presence of any radioactive, biological, inorganic, volatile organic contaminants. The table below shows only those contaminants that were detected in the water. The table allows us to monitor for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

Tap water samples were collected for lead and copper analyses from sample sites throughout the community.

Patriot Water Department PWSID:IN5278001 Regulated Contaminants Detected							
Lead and Copper	Period	90% Percentile: 90% of your water utility levels were less than	Range of Sampled Results (low-high)	Unit	AL	Sites Over AL	Typical Source
Copper, Free	2020 - 2023	0.327	0.0106 - 0.966	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead	2020 - 2023	4.11	0.24 - 5.65	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits