

Annual Drinking Water Quality Report

SPURGEON WATER WORKS

Public Water System ID: IN5263004

We are pleased to present to you the Annual Water Quality Report (Consumer Confidence Report) for the year, for the period of January 1 to December 31, 2024. 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. (Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien).

For more information regarding this report, contact:

Name: Lisa Rostron

Phone: 812-727-2043

Sources of Drinking Water

SPURGEON WATER WORKS is Purchased surface water.

Our water source(s) and source water assessment information are listed below:

Source Name		Type of Water	Report Status	Location
PATOKA LAKE - IN5219012		Surface water		
PIKE-GIBSON- IN5263003		Surface 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 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.

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. Contaminants that may be present in source water include:

There is no safe level of lead in drinking water. Exposure to lead in drinking water can cause serious health effects in all age groups, especially pregnant people, infants (both formula-fed and breastfed), and young children. Some of the health effects to infants and children include decreases in IQ and attention span. Lead exposure can also result in new or worsened learning and behavior problems. The children of persons who are exposed to lead before or during pregnancy may be at increased risk of these harmful health effects. Adults have increased risks of heart disease, high blood pressure, kidney or nervous system problems. Contact your health care provider for more information about your risks.

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 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 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 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.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

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).

There is no safe level of lead in drinking water. Exposure to lead in drinking water can cause serious health effects in all age groups, especially pregnant people, infants (both formula-fed and breastfed), and young children. Some of the health effects to infants and children include decreases in IQ and attention span. Lead exposure can also result in new or worsened learning and behavior problems. The children of persons who are exposed to lead before or during pregnancy may be at increased risk of these harmful health effects. Adults have increased risks of heart disease, high blood pressure, kidney or nervous system problems. Contact your health care provider for more information about your risks.

In the tables below, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms, we've provided the following definitions:

Action Level (AL): 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 drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

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.

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 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 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.

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

Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

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

RAA: Running Annual Average.

LRAA: Locational Running Annual Average.

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

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

ppm: milligrams per liter (mg/L) or parts per million - or one ounce in 7,350 gallons of water.

picocuries per liter (pCi/L): picocuries per liter is a measure of the radioactivity in water.

na: not applicable.

Our water system tested a minimum of 1 sample(s) per month in accordance with the Total Coliform Rule for microbiological contaminants. With the microbiological samples collected, the water system collects disinfectant residuals to ensure control of microbial growth.

Disinfectant	Date	Highest RAA	Unit	Range	MRDL	MRDLG	Typical Source
CHLORINE	2023	1	ppm	0.3 - 3.9	4	4	Water additive used to control microbes

Regulated Contaminants

In the tables below, we have shown the regulated contaminants that were detected. Chemical Sampling of our drinking water may not be required on an annual basis; therefore, information provided in this table refers back to the latest year of chemical sampling results.

Microbiological	Result	MCL	MCLG	Typical Source
COLIFORM (TCR)	In the month of September, 3 sample(s) returned as positive	Treatment Technique Trigger	0	Naturally present in the environment

Unregulated Contaminant Monitoring Rule (UCMR)	Collection Date of HV	Highest Value (HV)	Range of Sampled Result(s)	Unit
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Lead and Copper	Period	90TH 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	2021 - 2024	0.0449	0.0036 - 0.0793	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
LEAD	2021 - 2024	0	0	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfection Byproducts	Sample Point	Period	Highest LRAA	Range	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	RYAN YAGER, 13022 N SR 61, LYNNVILLE	2023 - 2024	5.5	5.48	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	TOWN HALL, 11440 S SR 61, SPURGEON	2023 - 2024	16.1	16.1	ppb	60	0	By-product of drinking water disinfection
TTHM	RYAN YAGER, 13022 N SR 61, LYNNVILLE	2023 - 2024	63	63	ppb	80	0	By-product of drinking water chlorination
TTHM	TOWN HALL, 11440 S SR 61, SPURGEON	2023 - 2024	54	54	ppb	80	0	By-product of drinking water chlorination

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
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Violations

During the period covered by this report we had the below noted violations.

Violation Period	Analyte	Violation Type	Violation Explanation
10/16/2024 - 12/3/2024	LEAD AND COPPER RULE REVISIONS	LSL INVENTORY-INITIAL	

10/16/2024 - 12/3/2024	LEAD AND COPPER RULE REVISIONS	LSL REPORTING-INITIAL	
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Additional Required Health Effects Language:

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

There are no additional required health effects violation notices.

We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

During the past year we were required to conduct Level 1 assessment(s). 1 Level 1 assessment(s) were completed. In addition, we were required to take 0 corrective actions and we completed 0 of these actions.

Reseller Contaminants

Regulated Contaminants	Collection Date	Water System	Highest Sample Result	Range of Sampled Result(s) (low - high)	Unit	MCL	MCLG	Typical Source
2,4-D	8/5/2024	EVANSVILLE WATER UTILITY	0.3	0 - 0.3	ppb	70	70	Runoff from herbicide used on row crops
ATRAZINE	8/5/2024	PATOKA LAKE REGIONAL WATER	0.21	0 - 0.21	ppb	3	3	Runoff from herbicide used on row crops
ATRAZINE	8/5/2024	EVANSVILLE WATER UTILITY	0.2	0 - 0.2	ppb	3	3	Runoff from herbicide used on row crops
BARIUM	8/6/2024	PATOKA LAKE REGIONAL WATER	0.024	0.024	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
BARIUM	8/27/2023	PETERSBURG WATER COMPANY	0.056	0.056	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
FLUORIDE	8/6/2024	PATOKA LAKE REGIONAL WATER	0.57	0.57	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
FLUORIDE	8/27/2023	PETERSBURG WATER COMPANY	0.394	0.394	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
FLUORIDE	1/8/2024	EVANSVILLE WATER UTILITY	0.66	0.66	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories

NITRATE	1/8/2024	EVANSVILLE WATER UTILITY	0.87	0.87	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
NITRATE-NITRITE	1/8/2024	EVANSVILLE WATER UTILITY	0.87	0.87	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Disinfection Byproducts	Monitoring Period	Water System	Highest LRAA	Range of Sampled Result(s) (low - high)	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	ELBERFELD WATER DEPARTMENT	56.3	45.3 - 75.1	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	ELBERFELD WATER DEPARTMENT	50.9	33.6 - 82.2	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	EVANSVILLE WATER UTILITY	37	25 - 54.4	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	EVANSVILLE WATER UTILITY	35	22.7 - 51.2	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	EVANSVILLE WATER UTILITY	35	22.7 - 51	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	PIKE-GIBSON WATER, INC.	41.8	17.5 - 51.4	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	PATOKA LAKE REGIONAL WATER	35	20.7 - 47.4	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	EVANSVILLE WATER UTILITY	40	24.8 - 64.3	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	PIKE-GIBSON WATER, INC.	45.5	17.2 - 81.7	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	EVANSVILLE WATER UTILITY	38	25.2 - 56.2	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	PATOKA LAKE REGIONAL WATER	36	22.2 - 46.8	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	EVANSVILLE WATER UTILITY	35	25.1 - 47.1	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	PATOKA LAKE REGIONAL WATER	39	19.6 - 57.8	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	PATOKA LAKE REGIONAL WATER	38	18.6 - 61	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	PETERSBURG WATER COMPANY	5	4.77	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	EVANSVILLE WATER UTILITY	33	21.2 - 50.8	ppb	60	0	By-product of drinking water disinfection

TOTAL HALOACETIC ACIDS (HAA5)	2023 - 2024	EVANSVILLE WATER UTILITY	31	20.3 - 44.8	ppb	60	0	By-product of drinking water disinfection
TTHM	2023 - 2024	ELBERFELD WATER DEPARTMENT	47.9	25.4 - 63.3	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	ELBERFELD WATER DEPARTMENT	50.1	27.1 - 77.6	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	EVANSVILLE WATER UTILITY	50	30 - 71.7	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	EVANSVILLE WATER UTILITY	45	26.4 - 57.4	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	EVANSVILLE WATER UTILITY	47	27.1 - 62.6	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	PIKE-GIBSON WATER, INC.	56.4	18.9 - 80.3	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	PATOKA LAKE REGIONAL WATER	39	19.4 - 61.3	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	EVANSVILLE WATER UTILITY	49	30.2 - 61.5	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	PIKE-GIBSON WATER, INC.	57.2	28.6 - 79.6	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	EVANSVILLE WATER UTILITY	40	24.6 - 52.9	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	PATOKA LAKE REGIONAL WATER	39	17.9 - 65.8	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	EVANSVILLE WATER UTILITY	48	29.2 - 61	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	PATOKA LAKE REGIONAL WATER	42	20.6 - 68.8	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	PATOKA LAKE REGIONAL WATER	38	16.7 - 59.3	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	PETERSBURG WATER COMPANY	8	7.59	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	EVANSVILLE WATER UTILITY	42	24.9 - 53.2	ppb	80	0	By-product of drinking water chlorination
TTHM	2023 - 2024	EVANSVILLE WATER UTILITY	47	26.3 - 61.4	ppb	80	0	By-product of drinking water chlorination

Additional Required Health Effects Language from Purchases:

Some people who drink water containing Haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver,

kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Reseller Violations and Health Effects Information

During the 2024 calendar year, the water system(s) that we purchase water from had the below noted violation(s) of drinking water regulations.

Water System	Type	Category	Analyte	Compliance Period
IN5263003	LSL INVENTORY-INITIAL	TT	LEAD AND COPPER RULE REVISIONS	10/16/2024 - 11/14/2024
IN5263003	LSL REPORTING-INITIAL	RPT	LEAD AND COPPER RULE REVISIONS	10/16/2024 - 11/14/2024

There are no additional required health effects violation notices from Purchases.

In 2024, our system was required to complete a service line inventory to identify any potential lead service lines within the system. You can view the information by searching for your address on IDEM’s public transparency dashboard at <https://idem.120water-ptd.com/>.