

Annual Drinking Water Quality Report

COFFEEN

IL1350150

Annual Water Quality Report 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.

The source of drinking water used by
COFFEEN is Purchased Surface Water

For more information regarding this report contact:

Name Christopher Horstmann

Phone 618-973-0633

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

Questions or Concerns?

Please attend a council
meeting held every first and
third Monday of the month at
City Hall at 7pm.

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.

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).

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. The drinking water supplier is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk.

Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standard Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water, you may wish to have your water tested, contact Chris Horstmann at 618-973-0633. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

Coffeen Source Water Information

| Source Water Name | Type of Water | Report Status | Location |
|--|---------------|---------------|----------------|
| CC 01-BSTR PUMP STA S SDE RT185 FF IL1350300 TP01 | SW | <u> I </u> | 0.8MI SE RT127 |
| CC 01-BSTR PUMP STA S SDE RT185 FF IL1350300 TP01 | SW | <u> A </u> | 200 SCHOOL ST |

Coffeen 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 618-973-0633. 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>.

Source of Water: HILLSBORO Illinois EPA considers all surface water sources of public water supply to be susceptible to potential pollution problems. Hence the reason for mandatory treatment of all public water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration and disinfection. Primary sources of pollution in Illinois lakes can include agricultural runoff, land disposal (septic systems) and shoreline erosion.

Source of Water: EJ WATER COOPERATIVE To determine E J Water Corporation's susceptibility to groundwater contamination, the Illinois EPA reviewed a Well Site Survey, published in 1996 by the Illinois EPA, a Source Water Protection Management Plan, prepared by the facility's planning committee and published in 1997, and a survey of the south well field performed in 2005. Based on the above documents, the community water supply's source water is susceptible to IOC and SOC contamination from non-point sources related to agricultural land use, although no presence of any pesticides/herbicides were detected in any water samples thus far analyzed. As a result of monitoring conducted at the wells and entry point to the distribution system, the land use activities, and source water protection initiatives by the facility, the E J Water Corporation's groundwater source is not susceptible to VOC contamination. However, Illinois EPA considers all surface water sources of public water supply to be susceptible to potential pollution problems. Hence the reason for mandatory treatment of all public water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration and disinfection. Source of Water: HARDINVILLE WATER COMPANY To determine Hardinville Water Company's susceptibility to groundwater contamination, the 2007 survey was reviewed. No potential sources, routes, or possible problem sites exist within the 400 foot minimum setback zones, 1,000 foot maximum setback zone, or the 5-year recharge area. No sites are located within either setback zone or recharge area. The Illinois EPA considers the source water of this facility to be susceptible to SOC contamination. This determination is based on a number of criteria including: monitoring conducted at the wells, monitoring conducted at the entry point to the distribution system, the available hydrogeologic data on the wells, and the land-use activities in the recharge area of the wells. Source of Water: EFFINGHAM Illinois EPA considers all surface water sources of public water supply to be susceptible to potential pollution problems. Hence the reason for mandatory treatment of all public water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration and disinfection. Primary sources of pollution in Illinois lakes can include agricultural runoff, land disposal (septic systems) and shoreline erosion. Source of Water: ST. FRANCISVILLE To determine St. Francisville's susceptibility to groundwater contamination, the source water protection areas were surveyed by the Illinois Rural Water Association in 2002. During this survey, no potential sources, routes, or possible problem sites were located within the 400 foot minimum setback zone of wells #6, #7 and #8. Additionally, no potential sources or problem sites were located within the potential 1,000 foot maximum setback zone of the wells. Furthermore, no potential sources, routes, or possible problem sites were encountered within St. Francisville's recharge areas. The Illinois EPA has determined that St. Francisville's wells #6, #7 and #8 are susceptible to SOC contamination. This determination is based on a number of criteria including: monitoring conducted at the wells, monitoring conducted at the entry point to the distribution system, and the available hydrogeologic data on the wells.

Lead and Copper

Definitions:
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 drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

Copper Range: 3.1ug/l to 120ug/l
Lead Range: 1ug/l to 1ug/l

To obtain a copy of the system's lead tap sampling data: 618-973-0633

CIRCLE ONE: Our Community Water Supply has/has not developed a service line material inventory.
To obtain a copy of the system's service line inventory: www.ilccr.com/coffee

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|-----------------|-----------------|-------|-----------|--|
| Copper | 09/23/2022 | 1.3 | 1.3 | 0.12 | 0 | ppm | N | Corrosion of household plumbing systems; Errosion of natural deposits. |

Water Quality Test Results

| | |
|--|--|
| Definitions: | The following tables contain scientific terms and measures, some of which may require explanation. |
| Avg: | Regulatory compliance with some MCLs are based on running annual average of monthly samples. |
| 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 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. |
| 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. |
| na: | not applicable. |
| mrem: | millirems per year (a measure of radiation absorbed by the body) |
| ppb: | micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water. |
| ppm: | milligrams per liter or parts per million - or one ounce in 7,350 gallons of water. |
| Treatment Technique or TT: | A required process intended to reduce the level of a contaminant in drinking water. |

Coffeen Regulated Contaminants

| Disinfectants and Disinfection By-Products | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--|-----------------|------------------------|--------------------------|-----------------------|----------|-------|-----------|--|
| Chlorine | 2024 | 2 | 1.2 - 3.6 | MRDLG = 4 | MRDL = 4 | ppm | N | Water additive used to control microbes. |
| Haloacetic Acids (HAA5) | 2024 | 43 | 1.15 - 49 | No goal for the total | 60 | ppb | N | By-product of drinking water disinfection. |
| Total Trihalomethanes (TTHM) | 2024 | 52 | 24.9 - 100.1 | No goal for the total | 80 | ppb | N | By-product of drinking water disinfection. |

Coffeen Violations Table

| Consumer Confidence Rule | | | |
|--|-----------------|---------------|--|
| The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| CCR ADEQUACY/AVAILABILITY/CONTENT | 07/01/2023 | 07/10/2024 | We failed to provide to you, our drinking water customers, an annual report that adequately informed you about the quality of our drinking water and the risks from exposure to contaminants detected in our drinking water. |
| CCR ADEQUACY/AVAILABILITY/CONTENT | 07/01/2024 | 2024 | We failed to provide to you, our drinking water customers, an annual report that adequately informed you about the quality of our drinking water and the risks from exposure to contaminants detected in our drinking water. |
| Total Trihalomethanes (TTHM) | | | |
| Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE (DBP), MAJOR | 07/01/2024 | 09/30/2024 | We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated. |

Monitoring Violations Annual Notice Template

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for the City of Coffeen

Our water system violated several drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 07/01/24 to 09/30/24 we did not complete monitoring or testing for disinfection by-products and therefore cannot be sure of the quality of our drinking water during that time.

What should I do?

There is nothing you need to do at this time.

The table below lists the contaminant(s) we did not properly test for during the last year, how often we are supposed to sample for chlorine how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which follow-up samples were (or will be) taken.

| Contaminant | Required sampling frequency | Number of samples taken | When all samples should have been taken | When samples were or will be taken |
|------------------------|-----------------------------|-------------------------------|---|------------------------------------|
| | | | | |
| Haloacetic Acids (HAA) | 1 sample every quarter | 1 sample during sample period | 07-01-2024 to 09-30-2024 | 09-03-2024 |

What happened? What is being done?

The required samples were taken on August 18th, 2024. The certified lab used to process the samples had an equipment failure. Samples were retaken as soon as possible on the 3rd of August. We still received a violation from the IEPA because we were required to sample on August 14th +/- 7 days. The IEPA refused to give us an extension for the lab failure.

For more information, please contact Chris Horstmann at 618-973-0633.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by Coffeen

Water System
ID#

IL1350150

Date distributed

6/9/25

| | | | |
|--|------------------|-----------|--------------------------------|
| Monitoring Violations Annual Notice Template | | | |
| IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER | | | |
| Monitoring Requirements Not Met for City of Coffeen | | | |
| <p>Our water system violated a drinking water standard over the past year. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct these situations.</p> <p><i>We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 2023 we failed to provide to you an annual report that adequately informed you about the quality of our drinking water and the risks from exposure to contaminants detected in our drinking water.</i></p> | | | |
| What should I do? | | | |
| There is nothing you need to do at this time. | | | |
| What happened? What is being done? | | | |
| <p>The 2023 Annual Water Quality was sent on July 2nd, 2023. The required delivery date was June 30th, 2023.</p> <p>For more information, please contact Chris Horstmann at 618-973-0633.</p> <p><i>Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.</i></p> | | | |
| This notice is being sent to you by the City of Coffeen. | Water System ID# | IL1350150 | Date distributed 06/09/2024 |

EJ Water Cooperative Source Water Information

| Source Water Name | Type of Water | Report Status | Location |
|---|---------------|---------------|---|
| CC03 - EJ SOUTH EFFINGHAM MASTER FF IL0490250 TP01 TO DS5 | SW | _____ | _____ |
| CC04 - EJ HARDINVILLE WC CONNECTIONFF IL0330020 TP02, FLOWS | GW | _____ | _____ |
| CC06 - EJ S. LAWRENCE WC MASTER | GW | _____ | _____ |
| CC08 - EJ NORTH EFFINGHAM MASTER FF IL0490250 TP01 TO DS5 | SW | _____ | Approximately 773 feet west of the intersection of Interstate 57 and County Rd. 1600 E, Effingham |
| CC09 - EJ HARDINVILLE WC CONNECTIONFF IL0330020, TP02, FLOWS | GW | _____ | Intersection of County Rd. 2300 E and 650 N, Oblong zip code, Jasper/Crawford County line. |
| CC10 - EJ MOULTRIE CO. RWD MASTER FF1395150 CC04 | SW | _____ | Northeast corner of the intersection of County Rd. 1500 N and County Rd. 3405 E, Gays zip code, Shelby County. |
| IN01895 - HOLLAND ENERGY RESRVR | SW | _____ | _____ |
| IN01952 - KASKASKIA RIVER INTAKE KASKASKIA RIVER | SW | _____ | _____ |
| IN02255 - SIDE CHANNEL RESERVOIR | SW | _____ | _____ |
| WELL 1 (WL00807) NORTH WELLFIELD. DRILLED | GW | _____ | Located approximately 1.23 miles northeast of the intersection of E. 1650th Ave. and N. 800th St., Newton zip code. |
| WELL 11 (WL01123) DRILLED 9/30/1996. | GW | _____ | Located approximately 2,200 feet west of the intersection of N. 925th St. and E. 1475th Ave., Newton zip code. |
| WELL 12 (WL01237) DRILLED 7/28/1997, SOUTH | GW | _____ | Located approximately 2,200 feet west of the intersection of N. 925th St. and E. 1475th Ave., Newton zip code. |
| WELL 13 (WL01353) DRILLED JUNE 2000, SOUTH | GW | _____ | Located approximately 2,200 feet west of the intersection of N. 925th St. and E. 1475th Ave., Newton zip code. |
| WELL 14 (WL01354) DRILLED JUNE 2000, SOUTH | GW | _____ | _____ |
| WELL 2 (WL00808) NORTH WELLFIELD. DRILLED | GW | _____ | Located approximately 1.23 miles northeast of the intersection of E. 1650th Ave. and N. 800th St., Newton zip code. |
| WELL 20 (WL02005) WELLFIELD JUST SOUTH OF | GW | _____ | Approximately 1.35 miles east of the intersection of E. 180th Ave. and N. 800th St. Zip code is for Hidalgo, IL. |
| WELL 21 (WL02006) WELLFIELD JUST SOUTH OF | GW | _____ | Approximately 1.35 miles east of the intersection of E. 180th Ave. and N. 800th St. Zip code is for Hidalgo, IL. |

| | | | | |
|-------------------|--------------------------|----|-------|---|
| WELL 22 (WL02007) | WELLFIELD JUST SOUTH OF | GW | _____ | Approximately 1.35 miles east of the intersection of E. 180th Ave. and N. 800th St. Zip code is for Hidalgo, IL. |
| WELL 4 (WL01764) | NORTH WELLFIELD, DRILLED | GW | _____ | Located approximately 1.23 miles northeast of the intersection of E. 1650th Ave. and N. 800th St., Newton zip code. |
| WELL 5 (WL01843) | NORTH WELLFIELD, DRILLED | GW | _____ | Located approximately 1.23 miles northeast of the intersection of E. 1650th Ave. and N. 800th St., Newton zip code. |

2024 EJ Water Cooperative Regulated Contaminants Detected

Coliform Bacteria

| Maximum Contaminant Level Goal | Total Coliform Maximum Contaminant Level | Highest No. of Positive | Fecal Coliform or E. Coli Maximum Contaminant Level | Total No. of Positive E. Coli or Fecal Coliform Samples | Violation | Likely Source of Contamination |
|--------------------------------|--|-------------------------|---|---|-----------|---------------------------------------|
| 0 | 1 positive monthly sample. | 1 | | 0 | N | Naturally present in the environment. |

Lead and Copper

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|-----------------|-----------------|-------|-----------|--|
| Copper | 2024 | 1.3 | 1.3 | 0.39 | 0 | ppm | N | Corrosion of household plumbing systems; Errosion of natural deposits. |
| Lead | 2024 | 0 | 15 | 8 | 0 | ppb | N | Corrosion of household plumbing systems; Errosion of natural deposits. |

EJ Water Cooperative Regulated Contaminants

| Disinfectants and Disinfection By-Products | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--|-----------------|------------------------|--------------------------|-----------------------|----------|-------|-----------|--|
| Chlorine | 2024 | 1.7 | 1 - 2 | MRDLG = 4 | MRDL = 4 | ppm | N | Water additive used to control microbes. |
| Chlorite | 2024 | 0.78 | 0.11 - 0.78 | 0.8 | 1 | ppm | N | By-product of drinking water disinfection. |
| Haloacetic Acids (HAA5) | 2024 | 26 | 1.05 - 34.5 | No goal for the total | 60 | ppb | N | By-product of drinking water disinfection. |
| Total Trihalomethanes (TTHM) | 2024 | 44 | 12.5 - 43.9 | No goal for the total | 80 | ppb | N | By-product of drinking water disinfection. |
| Inorganic Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
| Barium | 2024 | 0.0017 | 0.0017 - 0.0017 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Fluoride | 2024 | 0.5 | 0.499 - 0.499 | 4 | 4.0 | ppm | N | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |
| Mercury | 2024 | 0.5 | 0.52 - 0.52 | 2 | 2 | ppb | N | Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland. |
| Nitrate [measured as Nitrogen] | 2024 | 0.23 | 0.08 - 0.23 | 10 | 10 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |
| Sodium | 2024 | 15 | 15 - 15 | | | ppb | N | 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 | 07/07/2021 | 0.189 | 0.189 - 0.189 | 0 | 5 | pCi/L | N | Erosion of natural deposits. |

| Synthetic organic contaminants including pesticides and herbicides | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--|-----------------|------------------------|--------------------------|------|-----|-------|-----------|--|
| Atrazine | 2024 | 0.71 | 0 - 0.71 | 3 | 3 | ppb | N | Runoff from herbicide used on row crops. |
| Simazine | 2024 | 0.44 | 0 - 0.44 | 4 | 4 | ppb | N | Herbicide runoff. |

Turbidity

| | Limit (Treatment Technique) | Level Detected | Violation | Likely Source of Contamination |
|--------------------------------|-----------------------------|----------------|-----------|--------------------------------|
| Highest single measurement | 1 NTU | 0.22 NTU | N | Soil runoff. |
| Lowest monthly % meeting limit | 0.3 NTU | 100% | N | Soil runoff. |

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.