

Consumer Confidence Report

Annual Drinking Water Quality Report

E J WATER COOP

IL0790010

Annual Water Quality Report for the period of January 1 to December 31, 2022

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

E J WATER COOP is Surface Water (Delbert Mundt WTP) and Ground Water (Gila WTP).

For more information regarding this report contact:

Name Michael Nosbisch

Phone 217-925-5566

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: <ul style="list-style-type: none">- 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 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 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>.

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	_____	_____
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.

EJ Water Cooperative

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 217-925-5566. 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: E J WATER COOP 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.

EJ Water Cooperative

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

Definitions:
 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.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2022	1.3	1.3	0.29	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2022	0	15	8	0	ppb	N	Corrosion of household plumbing systems; Erosion 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.

Water Quality Test Results

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.

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	12/31/2022	2	2 - 2	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Chlorite	2022	0.7	0.15 - 0.7	0.8	1	ppm	N	By-product of drinking water disinfection.
Haloacetic Acids (HAA5)	2022	30	0 - 38.6	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2022	40	0 - 43.1	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	2022	0.0099	0.0099 - 0.0099	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2022	0.6	0.627 - 0.627	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2022	0.1	0.09 - 0.1	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2022	1	1.2 - 1.2	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Sodium	2022	11	11 - 11			ppm	N	Erosion from naturally occurring 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.

Turbidity

EJ Water Cooperative

Turbidity

	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest single measurement	1 NTU	0.274 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.

Violations Table

Chlorite			
Some infants and young children who drink water containing chlorite in excess of the MCL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorite in excess of the MCL. Some people may experience anemia.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE (DBP), MAJOR	09/01/2022	09/30/2022	We collected the samples on time, but they exceeded the hold time before the samples were analyzed, which meant they were insufficient for reporting. However, the results were within the accepted ranges, as were the months before and after.

EJ Water Cooperative

Monitoring Violations Annual Notice Template

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for EJ Water – IL0790010

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.

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 September 2022 the chlorite samples that were collected did not meet the monitoring standards as they were analyzed outside the allowed hold time. Therefore, we could not 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 this contaminant, 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
Chlorite	Monthly	3	September 2022	September 2022

What happened? What is being done?

The samples were collected in the correct month. A specific amount of time is allowed between collection of the sample and analysis. This hold time was exceeded prior to the analysis, which meant the results were not accepted. However, the results, were within the accepted ranges, as were the months before and after.

For more information, please contact Michael at 217-925-5566.

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 EJ Water Cooperative

Water System ID# IL0790010

Date distributed June 2023-9, 15, 30,

Lead and Copper

Definitions:
 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.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/19/2021	1.3	1.3	0.331	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

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.

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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.

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	12/31/2022	1.4	1.2 - 1.4	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2022	8	7.7 - 7.7	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2022	19	19.4 - 19.4	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	04/26/2021	0.0198	0.0198 - 0.0198	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	04/26/2021	0.5	0.5 - 0.5	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2022	1	1.4 - 1.4	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Sodium	04/26/2021	8.61	8.61 - 8.61			ppm	N	Erosion from naturally occurring 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	07/12/2021	0.87	0.87 - 0.87	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	07/12/2021	0.78	0.78 - 0.78	0	15	pCi/L	N	Erosion of natural deposits.

Hardinville

Lead and Copper

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2022	1.3	1.3	0.174	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

Water Quality Test Results

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Regulated Contaminants

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Chlorine	12/31/2022	1.4	0.82 - 1.61	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Total Trihalomethanes (TTHM)	2022	1	1 - 1	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
Arsenic	2022	0.53	0.53 - 0.53	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2022	0.0249	0.0249 - 0.0249	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2022	0.81	0.81 - 0.81	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Manganese	2022	19	19 - 19	150	150	ppb	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Nitrate [measured as Nitrogen] - Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.	2022	6	3.01 - 5.79	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Sodium	2022	17.1	17.1 - 17.1			ppm	N	Erosion from naturally occurring 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	02/13/2018	1.37	1.37 - 1.37	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	02/13/2018	2.1	2.1 - 2.1	0	15	pCi/L	N	Erosion of natural deposits.

St. Francisville

Water Quality Test Results

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Chlorine	12/31/2022	1.4	1.09 - 1.81	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2022	8	8 - 8	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2022	28	28.3 - 28.3	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

West Salem

Violations Table

Lead and Copper Rule			
The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.			
Violation Type	Violation Begin	Violation End	Violation Explanation
LEAD CONSUMER NOTICE (LCR)	12/30/2022	01/03/2023	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.