CITY OF CHRISTOPHER

2023 Water Quality Report

Introduction

This year, as in years past, the tap water produced by the Rend Lake Conservancy District Intercity Water Plant (Plant) and distributed by the City of Christopher met all USEPA and Illinois EPA drinking water health standards. The Plant vigilantly safeguards its surface water supply and we are able to report that the Rend Lake Conservancy District Intercity Water Plant had no violations and the City of Christopher had one violation (as listed below) of a contaminant level or of any other water quality standard in 2023. This report summarizes the quality of water that the City received from the Plant and also the quality of your water as it traveled through the City's distribution system. Also, it will discuss where the water comes from, what it contains, and how it compares to standards set by regulatory agencies. We are committed to providing you with this information because it is important to us that you are informed about the water you are receiving.

If you have any questions about this report or concerns about your water system, please contact Mr. Jon Taylor, Superintendent, at (618) 724-2011. Please feel free to attend any regularly scheduled City Hall meeting. Meetings are held at the City Hall the second Monday of each month at 6:30 P.M.

Water Source

The City buys the water from the Rend Lake Intercity Water System. Their system treats relatively high-quality surface water pumped from the intake structure at Rend Lake. The intake structure is located along the southeast portion of the lake adjacent to the Plant.

The source water assessment for our supply has not been completed by the Illinois EPA. It is anticipated that this assessment will be performed within the next three years. Information provided by this assessment will indicate any contaminant sources of concern in the vicinity of Rend Lake and how it relates to the quality of water produced by the Plant.

Health Issues

Some people may be more vulnerable to contaminants in drinking water. Immuno-compromised people such as people with cancer undergoing chemotherapy, people 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 health care providers. USEPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the USEPA's Safe Drinking Water Hotline at 800-426-4791.

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 USEPA's Safe Drinking Water Hotline at 800-426-4791.

Contaminant Sources

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 can dissolve naturally occurring minerals and radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Possible contaminants consist of:

- 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 may 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, USEPA prescribes regulations that 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.

In addition to this informational section of the Water Quality Report, we have included several tables for your review. The tables will illustrate the contaminants that were detected in the Rend Lake Intercity Water System distribution lines and also the contaminants that the City detected in their own distribution lines. Please note that neither system had a violation of a contaminant level.

City of Christopher Violations:

Viol. Desc	Contaminant	Level Found	Period	Corrected
Monitoring	TOTAL HALOACETIC ACIDS (HAA5)	N/A	10/1/23 - 12/32/23	Yes

Annual Drinking Water Quality Report

CHRISTOPHER

IL0550150

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 CHRISTOPHER is Purchased Surface Water

For more information regarding this report contact:

Phone 618-724-2011

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, radicactive material, and can pick up substances resulting from the presence of animals or from human activity.

ontaminants that may be present in source water nclude:

- 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 netals, which can be naturally-occurring or result from urban storm water runoff, industrial or iomestic 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 vater 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, arban 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 Cryptsporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

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

CC02 - CHRISTOPHER MASTER METER NO. FF IL0555100 TP02 RLCD	CC01 - CHRISTOPHER MASTER METER NO. FF IL0555100 TP02 INSIDE	Source Water Name
MS	MS	Type of Water
		Report Status
100 FT N OF 901 CHERRY	SE CORNER SNIDER ST & RR TRACKS	Location

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 618734-2011. 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: REND LAKE INTER-CITY WATER SYSTEMILLinois EPA considers all surface water sources of public water supply to 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.

Coliform Bacteria

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

ant in drinking water.	a cont	o reduce the	process in	A required	ue or TT:	Treatment Technique
,350,000 gallons of water.	ounce in	per billion - or per million - or	per liter or	micrograms milligrams		ppb:
dy)	ed by the bo	(a measure of radiation absorbed by the body)	millirems per year (a measure	millirem		mrem:
			applicable.	not appl		na:
is no known or expected risk to health. \ensuremath{MRDLGS} donicrobial contaminants.		water disinfectant below the use of disinfectants	The level of a drinking water disinfectant below which there reflect the benefits of the use of disinfectants to control a	The	disinfectant level	Maximum residual goal or MRDLG:
. There is convincing evidence that addition of	inking water. T	of a disinfectant allowed in drinking water. ecessary for control of microbial contaminant	The highest level of a disinfectant allowed in drindisinfectant is necessary for control of microbial	OH	residual disinfectant level	Maximum residual MRDL:
e is no known or expected risk to health. MCLGs allow	which there	a contaminant in drinking water below which of safety.		The	Maximum Contaminant Level Goal or MCLG:	Maximum Contamina
ng water. MCLs are set as close to the MCLGs as feasible	d in drinking	inant that is allowed tment technology.	The highest level of a contaminant that is all using the best available treatment technology.	The high using th	int Level or MCL:	Maximum Contaminant Level or MCL:
the water system to identify potential problems and determine (if ed and/or why total coliform bacteria have been found in our water	the water sed and/or wh	a very detailed study of the water sy MCL violation has occurred and/or why ions.	2 assessment is) why an E. coli n multiple occas	A Level possible system or	it:	Level 2 Assessment:
ify potential problems and determine (if possible) why	water system to identi	a study of the water system have been found in our water	1 assessment is liform bacteria	A Level total co	it:	Level 1 Assessment:
nual average of monthly samples.	running annual	some MCLs are based on	compliance with	Regulatory		Avg:
some of which may require explanation.	and measures, s	contain scientific terms and	following tables contain	The foll		Definitions:
					Test Results	Water Quality
Naturally present in the environment.	Z	0		Þ	1 positive monthly sample.	0
Likely Source of Contamination	Violation	Total No. of Positive E. Coli or Fecal Coliform Samples	Fecal Coliform or E. Coli Maximum Contaminant Level	Highest No. of Positive	Total Coliform Maximum Contaminant Level	Maximum Contaminant Level Goal

Regulated Contaminants

Total (TTHM	Haload (HAA5)	Chlo	Dis: Dis: Prod
Total Trihalomethanes (TTHM)	Haloacetic Acids (HAA5)	Chloramines	Disinfectants and Disinfection By- Products
2023	2023	2023	Collection Date
36	19	ω	Highest Level Detected
19.5 - 60	11 - 24	2.6 - 3	Highest Level Range of Levels Detected Detected
No goal for the total	No goal for the total	MRDLG = 4	MCLG
80	60	MRDL = 4	MCT
qdd	qdd	ppm	Units
Z	N	N	Violation
By-product of drinking water disinfection.	By-product of drinking water disinfection.	Water additive used to control microbes	Violation Likely Source of Contamination

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 the water delivered by the systems.

Violation Type	Violation Begin	Violation End	Violation Begin Violation End Violation Explanation
CCR ADEQUACY/AVAILABILITY/CONTENT	07/01/2023	2023	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

Haloacetic Acids (HAA5)

Some people who drink water containing haloacetic acids

ATOTACTOR IÀPE	Violation Begin	Violation End	Violation Begin Violation End Violation Explanation
MONITORING, ROUTINE (DBP), MAJOR	10/01/2023	12/31/2023	We failed to test our drinking out
			this failure, we cannot be sure of the quality of and period indicated. Because of
			indicated.

public notice of any violations in a timely manner. The City of Christopher failed to provide public notification in 2022. Moving forward, we will provide

2023 Regulated Contaminants Detected

Lead and Copper

Date Sampled: 2023

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. ALG's allow for a margin of safety.

Lead MCLG	Lead Action Level (AL)	Lead 90th Percentile	# Sites Over Lead AL	Copper MCLG	Copper Action Level (AL)	Copper 90th Percentile	# Sites Over Copper AL	Likely Source of Contamination
0	15 ppb	0 ppb	0	1.3 ppm	1.3 ppm	0.0524	0	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. **Maximum Contaminant Level** (MCL): The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the Maximum Contaminant Level Goal as feasible using the best available treatment technology. **Maximum Contaminant Level Goal** (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety. **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. **N/A**: not applicable. **Avg.**: Regulatory compliance with some MCL's is based on running annual average of monthly samples. **Maximum Residual Disinfectant Level** (MRDL): The highest level of 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** (MRDLG): The level of disinfectant in drinking water below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants. **PCi/L**: Picocuries per Liter (a measure of radioactivity)

Regulated Contaminants

Disinfectants & Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant
*Not all sample results ma	y have been		lating the Highes compliance sa					ts may be part of an evaluation to determine
*Total Haloacetic Acids (HAA5)	2023	20	11 - 23.5	N/A	60	ppb	No	By-product of drinking water chlorination
*TTHMs [Total Trihalomethanes]	2023	41	22.3 - 56.7	N/A	80	ppb	No	By-product of drinking water chlorination
Chlorite	2023	0.54	0.26 - 0.54	0.8	1	ppm	No	By-product of drinking water chlorination
Chloramines	2023	3.0	2.6 - 3.2	MRDLG=4	MRDL=4	ppm	No	Water additive used to control microbes
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant
Barium	2023	0.0126	0.0126 - 0.0126	2	2	ppm	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Arsenic	2023	1.28	1.28 - 1.28	0	10	ppb	No	Erosion of natural deposits; Runoff from orchards; Runoff from electronics production wastes

Inorganic Contaminants (continued)	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant
Fluoride	2023	0.69	0.69 - 0.69	4	4	ppm	No	Erosion of natural deposits; Water additive which promotes strong teeth; Fertilizer or Aluminum Factory discharge
Sodium	2023	20.6	20.6 - 20.6			ppm	No	Erosion from naturally occurring deposits. Used in water softener regeneration

The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant
Combined Radium 226/228	1/22/2020	0.86	0.86 - 0.86	0	5	pCi/L	No	Erosion of naturally occurring deposits
Gross alpha excluding radon and uranium	1/22/2020	0.12	0.12 - 0.12	0	15	pCi/L	No	Erosion of naturally occurring deposits

Turbidity 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.

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

NTU – Nephelometric Turbidity Units

Lowest Monthly % meeting limit	Limit (Treatment Technique)	Violation	Source
100%	0.3 NTU	No	Soil Runoff
Highest Single Measurement	Limit (Treatment Technique)	Violation	Source
0.39	1 NTU	No	Soil Runoff

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 violation sections.

VIOLATIONS: Rend Lake Intercity Water received a monitoring violation for failure to sample for Haloacetic Acids during the 11/1 – 11/30/23 monitoring period. This violation was due to laboratory error. RLIW collected the required sample on 12/6/23.

Monitoring Violations Annual Notice Template

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for City of Christopher

Our water system violated a drinking water standard 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 the 4th quarter we did not complete sampling for Haloacetic Acids 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 [this contaminant/these contaminants], 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	quarterly	6	11/1-11/30 2023	12/6/2023

What happened? What is being done?

The original samples were received by the laboratory on time, however, there was a time processing error by the laboratory. When the City of Christopher was notified of the processing error, we collected new samples and sent for processing.

For more information, please contact Jon Taylor at 618-724-2011 or Christopher Water Dept. 208 N Thomas St., Christopher, IL 62822

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 The City of Christopher.

Water System ID#

IL0550150

Date distributed

5/31/82024