VILLAGE OF FRANKLIN WATER QUALITY REPORT

JANUARY 1 - DECEMBER 31, 2023

Public Water Supply - ID# IL 1370150

Source Water and Drinking Water Contaminants

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 byproducts 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.

Source Wa	ter Name	Type of Water	Report Status	Location
CC 01-Meter From Jacksonville FF IL1370200 TP01	SW		Good	RT 104 East of Interstate 72

VILLAGE OF FRANKLIN ANNUAL WATER QUALITY REPORT

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.

Source Water Assessment

We want our valued customers to be informed about their water quality. If you would like to learn more, you are welcome to attend any of our regularly scheduled meetings. Village Committee meetings are held on the second (2nd) Tuesday of each month at 7:00 P.M. at Village Hall. If you would like a copy of this information, please stop by Village Hall between 7:30AM to 4:00PM Monday thru Friday, or call our operator at 217-675-2322 The source water assessment for our supply has been completed by the Illinois EPA. 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://epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl

Franklin's source of water is purchased surface water from Jacksonville. EPA considers all surface water source of community water to be acceptable to potential pollution problems, hence, the reason for mandatory treatment for all surface water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration, and disinfection. Causes of pollution to the lake include nutrients, siltation, suspended solids, and organic enrichment. Primary sources of pollution include agricultural runoff, land disposal (septic systems), and shoreline erosion. Figure 1 shows the watersheds for Lake Jacksonville and Mauvaise Terre Lake and the potential contamination sources located within them. Figure 2 shows the location of the Jacksonville community water wells, the Minimum and Maximum Setback Zones associated with each well and the delineated 5-Year Recharge Area. In addition, the potential sources of contamination located near the wells are also displayed. Due to the presence of potential sources and the unconfined nature of the wells, Illinois EPA considers these well to be susceptible to contamination.

Lead and Copper

If present, elevated levels of lead can cause serious health problems, especially for pregnant woman 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 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.

VILLAGE OF FRANKLIN ANNUAL WATER QUALITY REPORT Definitions:

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 margin of safety.

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

Regulated Contaminants

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Disinfection and disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	2023	1.4	1.18 – 1.61	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2023	15	10.8 – 22.3	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomenth anes (TTHM)	2023	72	42.6 - 91	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

Water Quality Test Results

Definitions: The following tables contains scientific terms and measures, some of which may require explanation.

Avg: Regulatory compliance with some MCL's are based on running annual average or 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 occasion.

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. MCLG's allow for a margin of safety.

Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

Maximum residual disinfectant level goal or MRDLG: The level of drinking water disinfectant below which there is no know 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.

mrem: Millirems per year (a measurement of radiation absorbed by the body)

PPB: Micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water.

NA: not applicable.

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 contaminant in drinking water.

CITY OF JACKSONVILLE 200 W. Douglas Jacksonville, IL 62650

MUNICIPAL UTILITIE



MUNICIPAL UTILITIES

2023 Water Quality Report

City of Jacksonville IL1370200

For more information regarding this report, contact: Ricky Hearin, Superintendent of Operations

(217)479-4660 www.jacksonvilleil.gov This report is intended to provide you with important information about your drinking water (for January 1 to December 31, 2023) and the efforts made by the City of Jacksonville water system to provide safe drinking water.

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

SOURCE WATER ASSESSMENT

A Source Water Assessment Fact Sheet has been prepared by the Illinois EPA in cooperation with the US Geological Survey for the City of Jacksonville. The source of drinking water used by the City of Jacksonville is ground water under the direct influence of surface water.

Drinking water for the City of Jacksonville is supplied by the Jacksonville community water supply (CWS). Two lakes and three wells act as the source of this drinking water.

Illinois EPA considers all surface water sources of community water supplies to be susceptible to potential pollution problems; hence, the reason for mandatory treatment for all surface water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration, and disinfection. Causes of pollution to the take include nutrients, siltation, suspended solids, and organic enrichment. Primary sources of pollution include agricultural runoff, land disposal (septic systems), and shoreline erosion.

Potential sources of contamination are also located near the well sites. Due to the presence of potential sources and the unconfined nature of the wells, Illinois EPA considers these wells to be susceptible to contamination. The Illinois EPA provides minimum protection zones of 400 feet for Jacksonville's wells. In 1991, the City of Jacksonville enacted a Maximum Setback Zone Ordinance providing for additional protection out to a distance of 2.500 feet from the wellhead.

WHAT ELSE SHOULD I KNOW?

In order to ensure that tap water is safe to drink, USEPA 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.

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 (1-800-426-4791).

CHARACTERISTICS OF DRINKING WATER

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- 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 may be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming;
- <u>Pesticides and herbicides</u>, 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff and septic systems; and
- <u>Radioactive contaminants</u>, which may be naturally occurring or be the result of oil and gas production and mining activities.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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. 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 (1-800-426-4791).

PROTAGE PAID PERMIT NO. 319
JACKSONVILLE, IL

Coliform Bacteria										
fCL - Coliform	MCLG	Total Collforn		Highest Number of Positive	MCL- Fecal Coli- form or E-Coll	Violation ?	Total # Positive E-Coli or Fecal Coliform Samples	Likely Source of Contaminant		
Monthly Samples	0	ALCO STUDIO		0	0	No	0	Naturally present in the environment		
ead & Copper (Collection Date 08/0	1/2023)		GARLES CONTRACTOR	(459 (53 25) / A 2 (52 5						
Lead & Copper (Conection Parc Scr.	Lead Action	90th	# Sites Over	MCLG	Units	Violation ?	Likely Source of Contamination			
	Level (AL)	Percentile	(AL)							
ead **	15	1.3	0	0	ug/L	No	Corrosion of household plumbing sys			
Copper **	1.3	0.0047	0	1.3	ppm	No	Erosion of natural deposits; Leaching	from wood preservatives; Corrosion of household plumbing systems d with service lines and home plumbing.		
The City of Jacksonville is responsible and in your home plumbing. You can the hower, doing laundry or a load of disheast contact the Water Plant at 217-	for providing high quality take responsibility by ider es. You can also use a fi 479-4660. Information or	drinking water and ren ntifying and removing le ilter certified by an Ame n lead in drinking water	noving lead pipes, l ead materials within erican National Sta	but cannot control th n your home plumbir ndards Institute acci	e variety of materials ng and taking steps t redited certifier to red	s used in plum o reduce your fuce lead in yo ssure is availal	bing components in your home. You st family's risk. Before drinking tap water our drinking water. If you are concerne	nare the responsibility for protecting yourself and your family from the , flush your pipes for several minutes by running your tap, taking a d about lead in your water, you may wish to have your water he or at http://www.epa.gov/safewater/lead.		
Regulated Contaminants	Highest Level Detected	Range of Levels Detected	Measurement	MICEG	MCL	VIOIAUOITE	Likely Source of Containing			
Some contaminants may include raw w			, measurement	1						
Disinfectants & Disinfection By-Prod		,								
ree Chlorine	1.2	0-2	ppm	MRDLG = 4	MRDL=4	No	Water additive used to control microt			
Haloacetic Acids (HAA5)	16	12.1 - 23.6	ppb	No goal for total	60	No .	By-product of drinking water disinfect			
otal Trihalomethanes (TTHM)	67	41 - 82.6	ppb	No goal for total	80	No	By-product of drinking water disinfect	ion		
	s not currently regulate					No No	of 1,000 or more.) Discharge of drilling wastes, Discharge from metal refineries; Erosion of natural deposits			
Sarium	0.011	0.011 - 0.011 0.57 - 0.57	ppm	2	2	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and			
luoride	0.6	0.57 - 0.57	ppm	4	4	140	aluminum factories	Glave which promotes strong leady, bloomings from terminal and		
itrate(measured as Nitrogen)	1	1.4 - 1.4	ppm	10	10	No	Runoff from fertilizer use; Leaching fr	om septic tanks, sewage; Erosion of natural deposits		
odium	35	35 - 35	nom			No	Erosion of naturally occuring deposits	; used in water softener regeneration		
otal Organic Carbon	The percentage of	Fotal Organic Carbon (TOC) removal was	measured each mo	onth and the system	net all TOC re	emoval requirements set , unless a TO	C violation is noted in the violations section.		
2021, our Public Water Supply was s	sampled as part of the Sta	ate of Illinois PFAS Sta	atewide Investigatio	n. Eighteen PFAS	compounds were sar	npled, and nor	ne were detected in our finished drinkir	g water. For more information about PFAS health		
dvisories visit http://www2.illinois.gov/e				Likely Source of						
urbidity	Limit (Treatment Technique)	Level Detected	Violation	Contamination						
		100%	No	Soil Runoff	Turbidity is a measu	rement of the	cloudiness of the water caused by sus	pended particles. We monitor it because it is a good indicator of		
owest monthly % meeting limit	1 U.3 N I U			Soil Runoff	water quality and th	e effectivenes				
The second secon	0.3 NTU 1 NTU	0.091 NTU	No				s of our filtration system and disinfecta	nts.		
ighest single measurement		0.091 NTU	No	Schrahon		e encouverior	s of our filtration system and disinfecta	nts.		
lighest single measurement Radioactive Contaminants UNTRE Combined Radium 226/228	1 NTU	0.091 NTU	No pCi/L	0	5	No	Erosion of natural deposits	nts.		
Combined Radium 226/228 sample date 04/06/23) Gross Alpha (Excluding Radon	1 NTU ATED SOURCE WATER 1.71 3.67	0.091 NTU 1.31 - 1.71 0 - 3.67	pCi/L	0	15	No No	Erosion of natural deposits Erosion of natural deposits			
Highest single measurement Radioactive Contaminants UNTRE Combined Radium 226/228 sample date 04/06/23) Gross Alpha (Excluding Radon & Unanium) (Sample date 04/06/23) We want our valued customers to be in Illinois EPA. If you would like a copy of Susceptibility to Contamination Determit Source Water Information - Intake (521) "The state requires us to monitor for or Definitions: The following tables cor	1 NTU ATED SOURCE WATER 1.71 3.67 formed about their water this information, please cination; and documentatic gratination; and documentatic gratination; and contaminants less it thain scientific terms and thain scientific terms and the scientific terms are scientific terms are scientific terms are scientific terms and the scientific terms are scientificated term	0.091 NTU 1.31 - 1.71 0 - 3.67 quality. If you would life call Ricky Hearin, Supe on/recommendation of take, Water type SW, than once per year bed in measures, some of measures, some of measures, some of measures, some of	pCi/L pCi/L pCi/L ke to learn more, p arintendent of Oper Source Water Pro Report Status good ause the concentra f which may requi	lease feel welcome ations, at (217)479- tection Efforts, you n 1, 600 ft SE WTP, W ations of these conta re explanation.	to attend any of our r 4660. To view a sun ray access the Illinoi /ell (52120) Local #1 aminants do not char	No No egularly scheo mary version s EPA website 2,3 Ranney C ge frequently.	Erosion of natural deposits Erosion of natural deposits Juled meetings. The source water ass of the completed Source Water Asses at http://www.epa.state.il.us/cgi-bin/wollector Weil, It. River, Water type GU Some of our data, though accurate, is	essment for our supply has been completed by the sments, including: importance of Source Water; p/swap-fact-sheets.p1. Report Status good, Naples IL., more than one year old.		
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