

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 the VILLAGE OF ISLAND LAKE is Ground Water.

For more information regarding this report contact: Village of Island Lake Water Department at 847-526-1954.

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

THE VILLAGE OF ISLAND LAKE HAD NO WATER QUALITY STANDARD VIOLATIONS DURING THE 2022 CALENDAR YEAR.

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.

Other Facts about Drinking Water

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.

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>.

Per- and Polyfluorinated Substances (PFAS) The per-and polyfluoroalkyl substances (PFAS) are a group of chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water. Fluoropolymer coatings can be in a variety of products. These include clothing, furniture, adhesives, food packaging, heat-resistant non-stick cooking surfaces, and the insulation of electrical wire. Many PFAS, including perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA), are a concern because they do not break down in the environment, can move through soils and contaminate drinking water sources, and may build up (bioaccumulate) in fish and wildlife. PFAS may be found in rivers and lakes and in many types of animals on land and in the water. The Village of Island Lake has been sampled for these compounds pursuant to applicable IEPA guidelines, and no PFAS have been detected in our drinking water system to date. For more information about PFAS health advisories: <http://www2.illinois.gov/epa/topics/water-quality/pfas/pages/pfas-healthadvisory.aspx>.

Island Lake's Water Sources and Treatment Facilities The Village of Island Lake Water Department uses ground water provided by four shallow wells drilled (less than 150' deep) into the Illinois Prairie aquifer, one deep well drilled (980' deep) into the St. Peter sandstone aquifer and another deep well drilled (1,330' deep) into the Galesville sandstone aquifer. An aquifer is an underground geological formation that contains water. Wells 5 and 6 are shallow wells located in the Westridge Subdivision. Water is pumped from both wells and treated at an iron removal plant. This Facility serves the Westridge Subdivision and a small portion of the original section of town. Wells 4-6 and 4-10 are shallow wells, while wells 8 and 9 are deep wells. These wells are located in the Fox River Shores Subdivision. The water pumped from these wells is treated at a water softening plant facility. This facility serves the Fox River Shores Subdivision, Portens, Walnut Glen, Fenview and Waters Edge subdivisions, as well as a substantial portion of the original section of town.

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 water supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by Village Hall or call our Water Department at 847-526-1954. 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 <https://dataservices.epa.illinois.gov/swap/factsheet.aspx>.

An IEPA Source Water Assessment summary is included below for your convenience

To determine Island Lake's susceptibility to groundwater contamination, the following document was reviewed: a Well Site Survey, published in 1991 by the Illinois EPA. Based on the information obtained in this document, there are 10 potential sources of groundwater contamination that could pose a hazard to groundwater utilized by Island Lake's community water supply. These include 1 auto body shop, 1 hardware store, 1 construction/demolition company, 2 auto repair facilities, 2 dry cleaners, and 3 below ground fuel storage tanks. In addition, information provided by the Leaking Underground Storage Tank and Remedial Project Management Sections of the Illinois EPA indicated sites with on-going remediation that might be of concern. Illinois EPA has determined that the Island Lake community water supply's source water from Wells #2, #4-6, #4-10, #8, and #9 is susceptible to contamination. Wells #5 and #6 are considered less 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. The land use within the Note: If 2017 or 2018 appears in the collection date column, monitoring for this contaminant took place throughout the course of that year. The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this area around the wells was also analyzed as part of this susceptibility determination. This land use includes residential, commercial and agricultural properties. In 2009, Island Lake received a Non-Compliance Advisory (NCA) for bacteriological detections in Well #8. In response, the well was shock chlorinated and no further detection of bacteria in the well have occurred. While the NCA has been resolved at this time, monitoring data is continually being tracked in regards to all active potable wells at the facility, and further deficiencies would result in additional enforcement.

2022 Regulated Contaminants Detected

(These reports represent treated water samples of the final product that is delivered to our customers.)

Lead and Copper

Date Samples: 2021 (To be samples again in 2024)

Lead & Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	07/20/21	1.3	1.3	0.49	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	07/18	0	15	<1.0	0	ppb	N	Erosion of natural deposits; Corrosion of house- hold plumbing systems.

Coliform Bacteria

Date Sampled: 2022

Coliform Bacteria	MCLG	Total Coliform Maximum Contaminant Level	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
	0			0	N	Naturally present in the environment.

Water Quality Test Results

The following table contains scientific terms and measures, some of which may require explanation.

<i>Maximum Contaminant Level Goal or MCLG:</i>	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.
<i>Maximum Contaminant Level or MCL:</i>	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.
<i>Maximum residual disinfectant level goal or MRDLG:</i>	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.
<i>Maximum residual disinfectant level or MRDL:</i>	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.
<i>ppm:</i>	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
<i>ppb:</i>	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
<i>na:</i>	not applicable.
<i>Avg:</i>	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
<i>pCi/L:</i>	Picocuries per liter (a measure of radioactivity)

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	1.2	0.95-1.3	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes
Haloacetic Acids (HAA5)*	2021	6	5.8 - 5.8	No goal for the total	60	Ppb	N	By-product of drinking water disinfection
Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future.								
Total Trihalomethanes (TTHM)	2022	15	15.06-15.06	No goal for the total	80	ppb	N	By-product of drinking water chlorination
Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future.								

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	6/8/2020	1.8	1.8 - 1.8	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	6/8/2020	*0.708	*0.708 - 0.708	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Iron	6/8/2020	0.024	0.024 - 0.024		1.0	ppm	N	Erosion of naturally occurring deposits.
Manganese	7/2/2020	<1.0	<1.0	150	150	ppb	N	Erosion of naturally occurring deposits
Nitrate (measured as Nitrogen)	7/29/2020	<0.35	<0.35	10	10	ppm	N	Runoff from fertilizer use, Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium	6/8/2020	100	100 - 100			ppm	N	Erosion of naturally occurring deposits: Used in water softner regeneration.
Zinc	7/2/2020	0.016	0 - 0.016	5	5	ppb	N	Erosion of naturally occurring deposits.

*Department of Public Health Fluoride sampling occurs monthly

Regulated Contaminants (con't)

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2022	1	1.474-1.474	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2021	4.0	3.8 - 3.8	0	15	pCi/L	N	Erosion of natural deposits.

*Regulatory compliance with some MCLs are based on running annual average of monthly samples.

Unregulated Contaminants

A maximum contaminant level (MCL) for this contaminant has not been established by either state or federal regulations, nor has mandatory health effects language been set. The purpose of unregulated contaminant monitoring is to assist USEPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Sulfate	6/8/2020	59	7.5 - 59	N/A	N/A	ppm	N	Erosion of naturally occurring deposits.

Note: If 2020 (without a specific date) appears in the collection date column, monitoring for this contaminant took place throughout the course of the year. The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be more than one year old.

Raw Water of Well 4 - 6

These detects do not represent the final water product that reaches the consumer's tap. The following data represents raw water (untreated) from Well 4-6. Final water that reaches consumer's tap is 0ppm, non-detectable in 2021.

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
MTBE (Methyl Tertiary-Butyl Ether)	2021	4.1	2.2 - 4.1	N/A	N/A	ppb	N	Exhaust from Vehicles; used as an octane booster in gasoline

WATER DEPARTMENT

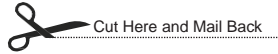


VILLAGE OF ISLAND LAKE

IMPORTANT PLEASE READ:

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

To help us serve you better, please fill out the Cross Connection Survey below and return to the Village Hall.



Cross Connection Survey (please return to Village Hall)

Please check whether or not you have the following:

	YES	NO
Lawn irrigation System?		
Fire sprinkler system?		
Boiler?		
Hot tub/spa/pool?		
Other: _____		

Are there any backflow prevention devices at your location?

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If yes, please list the following backflow device information:

Manufacturer: _____ Model: _____ Serial #: _____ Size: _____

Account: _____

Name: _____

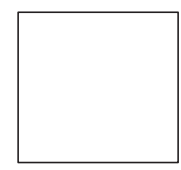
Address: _____

I affirm all of the above to be true and accurate to the best of my knowledge.

Signature: _____

Date: _____

Printed Name: _____



**ISLAND LAKE, IL 60042
RESIDENT
*****ECRMSS****