

# Village of Glen Ellyn

Public Water Supply ID# IL 0430450

## 2018 Annual Drinking Water Quality Report

### Lead and Copper

Contaminant (UNITS)	MCLG	ACTION LEVEL (AL)	90th PERCENTILE	# of SITES EXCEEDING AL	VIOLATION	COLLECTION DATE	LIKELY SOURCE OF CONTAMINATION
LEAD (ppb)	0	15	2.84	0	NO	2017	Corrosion of household plumbing systems; Erosion of natural deposits.
COPPER (ppm)	1.3	1.3	0.185	0	NO	2017	Erosion of natural deposits; Corrosion of household plumbing

*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. Glen Ellyn is responsible for providing high quality drinking water, but 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 the water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested by an independent, certified laboratory. Information on lead in your drinking water, testing methods, and steps you can take to minimize exposure to lead is available from the Safe Drinking Water Hotline (800) 426-4791 or on the web at <http://www.epa.gov/safewater/lead>.*

**Samples for lead are taken by residents from home faucets/spigots/taps**

Contaminant (unit of measurement)	MCLG	MCL	Highest Level Detected	Range of Detections	Violation	Date of Sample
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### Disinfectants and Disinfection By-Products

Contaminant (unit of measurement)	MCLG	MCL	Highest Level Detected	Range of Detections	Violation	Date of Sample
CHLORINE (ppm) <i>Water additive used to control microbes.</i>	MRDLG = 4	MRDL = 4	0.8	0.7 - 1.0	NO	2018
HALOACETIC ACIDS (Haa5) (ppb) <i>By-product of drinking water disinfection.</i>	No Goal for the Total	60	19 (Average)	10.2 - 24.7	NO	2018
TOTAL TRIHALOMETHANES (TThm) (ppb) <i>By-product of drinking water disinfection.</i>	No Goal for the Total	80	38 (Average)	21.5 - 53.3	NO	2018

*NOTE: Not all sample results may be used for calculating the Highest Level Detected in the HAA5's and TThm's because some results may be part of an evaluation to determine where sampling should occur in the future.*

### Source Water Assessment

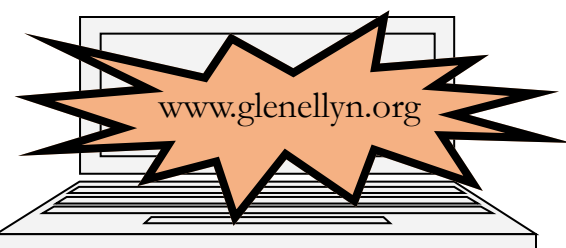
The Illinois EPA considers all surface water sources of a public water supply to be susceptible to potential pollution problems. The very nature of surface water allows contaminants to migrate into the intake with no protection other than dilution. This is the reason for mandatory treatment for all surface water supplies in Illinois. Chicago's offshore intakes are located at a distance that shoreline impacts are not usually considered a factor on water quality. At certain times of the year, however, the potential for contamination exists due to wet-weather flows and river reversals. In addition, the placement of the crib structures may serve to attract waterfowl, gulls, and terns that frequent the Great Lakes area, thereby concentrating fecal deposits at the intake and thus compromising the source water quality. Conversely, the shore intakes are highly susceptible to stormwater runoff, marinas and shoreline point sources due to the influx of groundwater to the lake.

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 the Public Works Department or call our Senior Water Operator at (630)547-5503. 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>.

### IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

**Este informe contiene información muy importante sobre el agua que usted bebe.**

**Tradúzcalo ó hable con alguien que to entienda bien.**



We want our valued customers to be informed about their water quality. If you are interested in learning more about our drinking water or have questions, please call Utilities Superintendent John Hubsy (630)547-5516 of Glen Ellyn Public Works

Please feel free to attend any of our regularly scheduled board meetings which are posted on the Village Website: [www.glenellyn.org](http://www.glenellyn.org).

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This annual Water Report is for the calendar year of January 1, 2018 to December 31, 2018.

This report is intended to provide you with important information about your drinking water and the efforts made by the Glen Ellyn Public Works Utilities Division to provide safe drinking water. This year, as in years past, your tap water met all USEPA and state drinking water health standards.

The source of the drinking water used in Glen Ellyn is Purchased Surface Water from Lake Michigan.

For more information regarding this report please contact Utilities Superintendent John Hubsy (630)547-5516.

### OVERVIEW OF GLEN ELLYN'S WATER SYSTEM

Lake Michigan is a surface water supply, providing drinking water to the City of Chicago and over 120 suburban communities. The Great Lakes system comprises 21% of the World's fresh water supply.

Drinking water in the Village of Glen Ellyn is supplied by the DuPage Water Commission (DWC), which purchases Lake Michigan water from the City of Chicago. Before it is purchased by the DWC,

lake water is treated at Chicago's Jardine Purification Plant. After leaving the Jardine plant, the water is conveyed to DWC's metering stations and then sold to Glen Ellyn. The water then goes into the Glen Ellyn water distribution system which consists of approximately 110 miles of water main, 1,600 valves, 1,400 fire hydrants, two one-million gallon reservoirs, and two elevated storage tanks with a combined 1.25 million gallons of storage capacity. The Village also maintains two standby groundwater wells.

The average pumpage to our customers for 2018 was 2.31 million gallons per day. This equates to 844.51 million gallons distributed for the year, or an average of 83.5 gallons per day per person.

Glen Ellyn delivers high-quality drinking water. Many steps must be taken to attain this goal. Daily monitoring is conducted at all receiving stations. Water samples are collected at representative locations throughout the Village and brought to an independent certified laboratory for microbiological analysis. Sample collection and facility monitoring are performed by Village staff members who are IEPA certified Public Water Supply Operators. Samples are also collected and analyzed to detect specific Volatile Organic Contaminants in the water as prescribed by Federal and State regulations.

### SOURCE WATER INFORMATION

The sources of drinking water (both tap and bottled) include rivers, lakes, ponds, streams, 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 may be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining and 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 byproducts 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.

### 2018 Volunteer Monitoring

The City of Chicago has continued monitoring for Cryptosporidium, Giardia and E. coli in its source water as part of its water quality program. To date, Cryptosporidium has not been detected in these samples but Giardia was detected in 2010 in one raw lake water sample collected in September 2010. Treatment processes have been optimized to provide effective barriers for removal of Cryptosporidium cysts and Giardia cysts in the source water, effectively removing these organisms in the treatment process. By maintaining low turbidity through the removal of particles from the water, the possibility of Cryptosporidium and Giardia organisms getting into the drinking water system is greatly reduced.

In 2018, Chicago Department of Water Management has also continued monitoring for Hexavalent Chromium, also known as Chromium-6. USEPA has not yet established a standard for Chromium-6, a contaminant of concern which has both natural and industrial sources. Please address any questions or concerns to DWM's Water Quality Division at 312-742-7499. Data reports on the monitoring for Chromium -6 are posted on the City's website, accessible here: [http://www.cityofchicago.org/city/en/depts/water/supp\\_info/water\\_quality\\_resultsandreports/city\\_of\\_chicago\\_emerigincontaminantstudy.html](http://www.cityofchicago.org/city/en/depts/water/supp_info/water_quality_resultsandreports/city_of_chicago_emerigincontaminantstudy.html).

The table below shows the results of the water quality analysis based on tests conducted during 2018 or the most recently applicable test. The state requires monitoring of certain contaminants less than once per year because the contaminants do not change frequently. Therefore, some of this data may be more than one year old. Every regulated contaminant that was detected in the water, even in minute traces, is listed here. The table contains the name of each substance, the highest level allowed by regulation (MCL), the ideal goals for public health, the amount detected, the usual source of such contamination, footnotes explaining the findings, and a key to units of measurement. Definitions of MCL and MCLG are important.

**Maximum Contaminant Level Goal (MCLG)** - The level of a contaminant in drinking water below which there is no known or expected risk to health., allows for a margin of safety.

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

**Treatment Technique (TT)** - A required process intended to reduce the level of a contaminant in drinking water.

**Action Level (AL)** - The concentration of a contaminant that triggers treatment or other required actions by the water supply.

**Action Level Goal (ALG)** - The level of a contaminant in drinking water below which there is no known or suspected health risk. ALG's allow for a margin of safety.

**Maximum Residual Disinfectant Level Goal (MRDLG)** - The level of a drinking water disinfectant 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.**

**Maximum Residual Disinfectant level (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.

**Detected Contaminants**

Contaminant (unit of measurement) <i>Typical Source of Contamination</i>	MCLG	MCL	Highest Level Detected	Range of Detections	Violation	Date of Sample
<b>Turbidity Data</b>						
TURBIDITY (%<0.3 NTU) * <i>Soil runoff. Lowest monthly percent meeting limit..</i>	N/A	TT (Limit 0.3 NTU)	100%	100%-100%	NO	2018
TURBIDITY (NTU) * <i>Soil runoff. Highest Single Measurement.</i>	N/A	TT (Limit 1 NTU)	0.19	N/A	NO	2018
<i>Note: Turbidity is a measure of cloudiness in water. The City of Chicago monitors turbidity because it is a good indicator of water quality and the effectiveness of the filtration system and disinfectants.</i>						
<b>Inorganic Contaminants</b>						
ARSENIC (ppb) <i>Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes</i>	0	10	2.13	1.12 - 2.13	NO	2017
BARIUM (ppm) * <i>Discharge from drilling wastes; Discharge from metal refineries; Erosion of natural deposits.</i>	2	2	0.0203	0.0203 - 0.0214	NO	2018
NITRATE (as Nitrogen) (ppm) * <i>Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits</i>	10	10	0.42	0.31 - 0.42	NO	2018
TOTAL NITRATE & NITROGEN (as Nitrogen) (ppm) * <i>Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits</i>	10	10	0.42	0.31 - 0.42	NO	2018
<b>Unregulated Contaminants</b>						
SULFATE (ppm) * <i>Erosion of naturally occurring deposits.</i>	N/A	N/A	27.6	26.3 - 27.6	NO	2018
SODIUM (ppm) * <i>Erosion of naturally occurring deposits; Used as a water softener.</i>	N/A	N/A	8.89	8.14 - 8.89	NO	2018
<b>Radioactive Contaminants</b>						
COMBINED RADIUM 226/228 (pCi/L) * <i>Erosion of natural deposits.</i>	0	5	0.84	0.50 - 0.84	NO	02/11/2014
GROSS ALPHA excluding radon and uranium (pCi/L)* <i>Decay of natural and man-made deposits</i>	0	15	6.6	6.1 - 6.6	NO	02/11/2014
<b>Coliform Bacteria</b>						
TOTAL COLIFORM	0	0	0	N/A	NO	2018
E. COLI OR FECAL COLIFORM	0	0	0	N/A	NO	2018

Contaminant (unit of measurement) <i>Typical Source of Contaminant</i>	MCLG	MCL	Highest Level Detected	Range of Detections	Violation	Date of Sample
<b>Total Organic Carbon</b>						
TOC [ Total Organic Carbon ] *						
The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set by the IEPA.						
<b>State Regulated Contaminants</b>						
IRON (ppm) <i>Erosion of natural deposits.</i>	N/A	1	1.4	0.517 - 1.4	NO	2017
FLUORIDE (ppm) * <i>Water additive which promotes strong teeth.</i>	4	4	0.86	0.64 - 0.86	NO	2018
NOTE: Fluoride is added to the water supply to help promote strong teeth, as of November 2015 the Illinois Department of Public Health recommends an optimal level of 0.7 mg/L.						

**ABBREVIATIONS** N/A - Not Applicable ND - Not Detected NTU - Nephelometric Turbidity Units  
 pCi/L - Picocuries per liter (a measure of radioactivity)  
 ppm - Parts per million, or milligrams per liter (mg/L) or on ounce in 7,350 gallons of water  
 ppb - Parts per billion, or micrograms per liter (ug/L), or one ounce in 7,350,000 gallons of water  
 (\*) - Samples collected by the City of Chicago. All other samples collected by the Village of Glen Ellyn.

**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. The purpose for monitoring this contaminant is to assist USEPA in determining the occurrence of unregulated contaminants in drinking water, and whether future regulation is warranted.

**Sodium**

There is no state or federal MCL for sodium. Monitoring is required to provide information to consumers and health officials who have concerns about sodium intake due to dietary precautions. If you are on a sodium-restricted diet, you should consult a physician about the level of sodium in the water.

**Additional Health Information**  
 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.  
 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).  
 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. USEPA/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 (1-800-426-4791).

**EMERGENCY WELLS**

The Village maintains emergency wells in the event of catastrophic loss of our source water supply from Lake Michigan. The emergency wells are tested monthly but not pumped into the drinking water system. None of the wells were utilized as a source of drinking water in 2018. Not all well water test data is not included in this report's tables but is available upon request at (630)469-6756.