

Annual Drinking Water Quality Report for 2024
Village of Skaneateles
26 Fennell St., Skaneateles, NY 13152
Public Water Supply ID# NY3304331

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The purpose of this report is to raise the understanding of drinking water and awareness of the need to protect our drinking water source. This report also details where our water comes from, what it contains, and the risk water testing and treatment are designed to prevent. We remain committed to providing you with the safest and most reliable water supply.

If you have any questions about this report concerning drinking water, please contact The Village Water Department office, phone #315-685-3440.

We encourage public interest and participation in our community's decisions affecting drinking water. Regular Municipal Board Meetings occur on the fourth Wednesday of each month, at 7:00 p.m. at the Village Office located at 26 Fennell Street, Skaneateles, NY. The public is welcome.

More information is available on the World Wide Web at <http://waterdata.usgs.gov>.

WHERE DOES OUR WATER COME FROM?

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 activities. Contaminants that may be present in source water include microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. To ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the number of certain contaminants in water provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

FACT AND FIGURES

The Village of Skaneateles water system serves the Town as well as the Village residents, a combined population of approximately 5,500. In 2024 our pumping figures showed a total of 228,742,000 gallons. Our daily average of water pumped into the distribution system was 622,849 gallons. Our highest single day, July 8, 15, 2024, was 812,000 gallons. The amount delivered to customers was 166,390,606 gallons for the year. This leaves an unaccounted-for total of 62,351,394 gallons, which accounts for 27% of the total produced. This water was used to flush hydrant mains, fight fires, unauthorized hydrant use, municipal use, system leakage and water main breaks.

Our billing figures show that 70% of our customers in the Village use 600 Cu. Ft. of water per month at an average cost of \$186.87/yr.

VILLAGE OF SKANEATELES WATER SOURCE

Our community water system receives its water from a surface water source, Skaneateles Lake. It is the fourth largest and third deepest of the Finger Lakes. It has a surface area of 13.6 square miles with a maximum depth of 300 feet. The source of water for the lake is its watershed. The watershed acreage calculated by the Geographic Information System (GIS) is 37,724 acres or 58.94 square miles. The water quality of Skaneateles Lake is ranked as one of the top ten lakes in the Country. The village is fortunate to have this lake as our surface water source.

The Village of Skaneateles takes its water directly from wet wells located in the City of Syracuse Gatehouse, Genesee Street in the Village of Skaneateles. It is then pumped from the Village Pump Station through a 12"

dedicated water main to our reserve tanks located on East Street and directly into the Village system. From the standpipe and elevated water tank, the water is then gravity fed into the distribution system of both the Village and Town water systems.

All the water pumped by the Village Pump Station is treated with chlorine and fluoride by the City of Syracuse prior to entering our water distribution system.

SWAP SUMMARY FOR SKANEATELES LAKE

The NYS DOH has evaluated the Village of Skaneateles' source water susceptibility to contamination under the Source Water Assessment Program (SWAP), and their findings are summarized here. It is important to stress that these assessments were created using available information and only estimate the potential for source water contamination. Elevated susceptibility ratings do not mean that source water contamination has or will occur for the Village of Skaneateles. The City of Syracuse provides treatment and regular monitoring to ensure the water delivered to the Village of Skaneateles meets all applicable standards.

This assessment found a moderate susceptibility to contamination for the Skaneateles Lake source of drinking water. The amount of pasture in the assessment area results in a high potential for protozoa contamination. No permitted discharges are found in the assessment area. There is no likely contamination threats associated with other discrete contaminant sources, even though some facilities were found in low densities.

FILTRATION WAIVER

The Village of Skaneateles along with the City of Syracuse is currently operating under a filtration avoidance extension granted in June of 2004. The waiver has no termination date and will remain in effect for as long as the City and Village comply with the conditions of the waiver. Since the Village is a filtration avoidance system, it is subject to recent USEPA Long Term 2 Enhanced Surface Water Treatment Rule (LT2) treatment requirements. The Village reviewed LT-2 treatment options and developed plans to meet the requirements of the new rule utilizing Ultraviolet (UV) disinfection technologies. With the installation of the UV system the Village has satisfied all EPA requirements.

SKANEATELES LAKE HARMFUL ALGAE BLOOM

In 2018 the New York State Department of Environmental Conservation set up protocols for confirmed samples of harmful algae blooms (HABs) on Skaneateles Lake. The City begins routine sampling during HAB season and alerts all municipalities along the conduit should the results prove the presence of Microcystis (a type of harmful blue-green algae).

Each municipality that utilizes Skaneateles Lake as a drinking source has a different approach to treating the presence of microcystis due to each system's capability. The Village of Skaneateles water system has the capability to increase the contact time of chlorine for the system as well as increasing the dose of chlorine provided for disinfection.

The Village can also provide extended chlorine contact time by adjusting the configuration of the Village Distribution system – closing all interconnections on the 12-inch water main to the storage facilities and operating the tanks in series. The amount of time that water is in contact with chlorine from the Skaneateles Lake Intakes to the Village's first customer is greater than 4 hours in this operating mode. By boosting chlorine levels and maintaining extended contact time, the Village demonstrated that this protocol is effective in removing algal toxins.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

As the State regulations require, we routinely test the drinking water for numerous contaminants. In 2024, the Village was required to test for Total Coliform, Trihalomethanes (THM), Haloacetic acids (HAA5), Lead, and Copper. Total Coliform samples are taken to the City of Syracuse Gatehouse where they are transported to a certified lab to be tested for Total Coliform & E. Coli, as directed by the New York State Department of Health. The results of all tests are available at the Village of Skaneateles Water Department Office, phone number 315-685-3440.

For the THM and HAA5 testing, the Village took samples from one site in 2024. These samples were collected and sent to the lab for testing. The results are shown on the table below. You may also obtain copies of the results at the Skaneateles Water Department Office.

In addition, the City of Syracuse tests the water entering the Gatehouse for all contaminants listed in the Federal Safe Drinking Water Act. These contaminants include inorganic compounds, nitrate, nitrite, volatile organic compounds, synthetic organic compounds and radiological compounds. Refer to Detected Contaminants Table below compiled by the Syracuse Water Department. For more information on the Federal Safe Drinking Water Act, consumers are encouraged to call The Safe Drinking Water Hotline telephone number: 800-426-4791.

Drinking water, including bottled water, may reasonably be expected to contain at least some small amounts of 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 Safe Drinking Water Hotline (1-800-426-4791) or the Onondaga County Health Department at 315-435-6600.

The tables presented below depict which compounds were detected in the drinking water. The State allows testing for some contaminants **less than** once per year because the concentration of these contaminants does not change frequently. Some of our data, though representative, are more than one year old.

To understand the tables below, the following definitions will be helpful.

GLOSSARY OF TERMS

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

n/a: Not applicable.

Maximum Contaminant Level (MCL): The highest level of contaminant that is allowed in drinking water. MCL's are set as close to MCLG's 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 health risk. MCLG's allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL): The highest level of disinfectants allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Goal (MRDLG): The level of 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 contamination.

Milligrams per liter (mg/l): Corresponds to one part of liquid in one million parts of liquid (parts per million – ppm).

Micrograms per liter (ug/l): Corresponds to one part of liquid in one billion parts of liquid (parts per billion – ppb).

NTU: Nephelometric Turbidity Unit: a measurement of the turbidity, or cloudiness of the water.

Picocuries per liter (pCi/L): A measure of the radioactivity in water.

Treatment Technique (TT): A required process intended to reduce the level of contaminants in drinking water.

ND: Laboratory analysis indicates that the constituent is not present, non detect.

HAA5 (Haloacetic Acids): the combined concentration of the following five contaminants; Dibromo-, Dichloro-, Monobromo-, Monochloro-, and Trichloro-, acetic acids.

TTHM (Total Trihalomethane): the combined concentration of the following four contaminants; Bromodichloromethane, Bromoform, Chloroform, and Dibromochloromethane.

90th Percentile Value: The values reported for lead and copper represent the 90th percentile. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the lead and copper values detected at your water system.

WATER QUALITY MONITORING

The Village Water Department, in conjunction with the City of Syracuse, conducts numerous tests on the water to monitor its quality and to verify compliance with state and federal requirements. The monitoring program includes the components described below. The Syracuse Water Department provides testing for Skaneateles Lake source water.

Table of Detected Contaminants: Village of Skaneateles Testing							
Contaminant	Violation Yes/No	Date of Sample	Upper Bound Level Detected (Avg) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Chlorine Residual	No	2024 Weekly	1.25 (0.38-3.81) (Notes 1,2)	mg/l	(MRDLG) N/A	(MRDL) 4	Water additive used to control microbes.
Lead	No	July 2023	3.0 (0.001–3.8) (Note 3)	ug/l	0	AL= 15	Corrosion of household plumbing systems and service lines connecting building to water mains, erosion of natural deposits.
Copper	No	July 2023	0.99 (0.305-.1.13) (Note 4)	mg/l	1.3	AL= 1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.
Turbidity	Yes	2024 Weekly	0.65 (0.14-49.90) (Note 5)	NTU	N/A	5	Soil run off in lake water

Notes:

1. Test samples taken at Entry Point of the Skaneateles system.
2. Test samples taken in the Distribution System by Village of Skaneateles.
3. During 2024 we collected and analyzed 20 samples for lead in cooperation with the Skaneateles WDs. The upper bound level included in the table represents the 90th percentile containment level. The action level for Lead was not exceeded at any of the 20 sites tested.
4. During 2024 we collected and analyzed 20 samples for copper in cooperation with the Skaneateles WDs. The upper bound level included in the table represents the 90th percentile containment level. The action level for copper was not exceeded at any of the 20 sites tested.
5. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants. State regulations require that turbidity must always be below 5 NTU. Our highest single turbidity measurement for the year (49.90 NTU) occurred on 1/9/2024. State regulations require that turbidity must always be below 5 NTU.

WHAT DOES THIS INFORMATION MEAN?

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. Please pay special attention to the additional statements in this document regarding Cryptosporidium.

Table of Detected Contaminants: Disinfectant & Disinfection By-products (Village of Skaneateles Testing)							
Contaminant	Violation Yes/No	Dates of Samples	Upper Bound Level Detected (Avg) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Total Trihalo Methanes **	No	8/19/24	41.0	ug/l	N/A	80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains organic matter.
Haloacetic Acids ***	No	8/19/24	13.6	ug/l	N/A	60	By-product of drinking water disinfection needed to kill harmful organisms.

** **Total Trihalomethanes** – the combined concentration of the following four contaminants; Bromodichloromethane, Bromoform, Chloroform, and Dibromochloromethane.

*** **Haloacetic acids** – the combined concentration of the following five contaminants; Dibromo-, Dichloro-, Monobromo-Monochloro-, and Trichloro –, acetic acids.

Table of Detected Contaminants: Skaneateles Lake Source Water (City of Syracuse Testing)							
	Violation Yes/No	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Barium	No	5/9/24	0.0229	mg/l	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chloride	No	11/13/24	23.1	mg/l	N/A	250	Naturally occurring or indicative of road salt contamination.
Fluoride	No	Daily	0.73 (0.0-1.44)	mg/l	N/A	2.2	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories.
Magnesium	No	5/09/24	0.00054	mg/L	N/A	N/A	Naturally occurring
Nitrate	No	5/9/24	0.41	mg/l	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Odor	No	5/09/24	1	Units	N/A	3	Organic or inorganic pollutants originating from municipal and industrial waste discharges; natural sources.
Potassium	No	11/13/24	1.52	mg/L	N/A	N/A	Naturally occurring
Sodium ¹	No	5/9/24	12.8	mg/l	N/A	N/A	Natural deposits; road salts; water softeners; animal waste
Sulfate	No	11/13/24	11	mg/l	N/A	250	Naturally occurring

Turbidity ²	Yes	1/10/24	49.90 (upper level detected)	NTU	n/a	5	Soil runs off in lake water
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Notes:

1 – Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

2 - The City of Syracuse measures the turbidity in its raw water every 4 hours. Turbidity has no health effects. However, Turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites, including Giardia Lamblia and Cryptosporidium. Please pay special attention to the additional statement in this document regarding Cryptosporidium

WHAT DOES THIS INFORMATION MEAN?

The table shows that our system uncovered some problems this year. Turbidity is regulated for the Skaneateles Lake supply by two standards. One is a treatment technique requirement, which is violated if any turbidity measurement exceeds 5 NTU. The second, more critical, threshold is a turbidity regulatory limit, or Maximum Contaminant Level (MCL) violation, which occurs when two consecutive daily entry point analyses exceed 5 NTU.

One treatment technique violation occurred in 2024. On January 13, 2024, turbidity levels entering the City of Syracuse's water intake exceeded the maximum allowable standard of 5 NTU due to high winds. Turbidity levels reached 18.96 NTU at 4:00 am.

One Turbidity Event occurred in 2024. A multi-day weather event commenced on January 9 comprising of sustained west winds. The inclement weather resulted in Intake #1 exceeding 5 NTU on separate consecutive days. An elevated turbidity recording of 19.05 NTU was recorded at 8:00 pm on January 9 and a turbidity recording of 49.90 NTU at 12:00 am on January 10. Intake #2 was closed from January 9 to January 15. The treatment technique violation and Turbidity Event were both reported to the Onondaga County Health Department.

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. Please pay special attention to the additional statements in this document regarding Cryptosporidium.

The NYSDOH sets drinking water standards and has determined that the presence of microbiological contaminants is a health concern at certain levels of exposure. If water is inadequately treated, microbiological contaminants in that water may cause disease. Disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice, and any associated headaches and fatigue. These symptoms, however, are not just associated with disease-causing organisms in drinking water, but also may be caused by a number of factors other than your drinking water. The NYSDOH has set enforceable requirements for treating drinking water to reduce the risk of these adverse health effects. Treatments, such as filtration and disinfection, remove or destroy microbiological contaminants.

We have learned through our testing that some other contaminants have been detected; however, these contaminants were detected below the level allowed by the State. For more information please contact the Village of Skaneateles Water Department at 315-685-3440. We are required to present the following information on lead in drinking water:

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. The *Village of Skaneateles Water Department* is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures.

Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish to have your water tested, contact the *Village of Skaneateles Water Department* at 315-685-3440. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

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 your drinking water meets health standards. During 2024, the City of Syracuse did not monitor or test for 1,4-Dioxane and therefore cannot be sure of the 1,4 Dioxane levels in your drinking water during that time. A make-up sample for 1,4 Dioxane was collected in early 2025 and was found to be below the laboratory's minimum reporting limit.

INFORMATION ON LEAD SERVICE LINE INVENTORY

A Lead Service Line (LSL) is defined as any portion of pipe that is made of lead which connects the water main to the building inlet. An LSL may be owned by the water system, owned by the property owner, or both. The inventory includes both potable and non-potable SLs within a system. In accordance with the federal Lead and Copper Rule Revisions (LCRR) our system has prepared a lead service line inventory and have made it publicly accessible by requesting a copy from the Village of Skaneateles Water Department and/or visiting the "New York State Lead Service Line Inventory – Map" website at:

<https://health.data.ny.gov/Health/New-York-State-Lead-Service-Line-Inventory-Map/fkii-zkcg>

INFORMATION ON CRYPTOSPORIDIUM AND GIARDIA

New York State law requires water suppliers to notify their customers about the risks of *Cryptosporidium* and *Giardia*. These pathogens are of concern because they are found in surface water and ground water under the influence of surface water throughout the United States. Filtration and disinfection are the best methods for use against them, but 100% removal or inactivation cannot be guaranteed. Cryptosporidiosis and Giardiasis are intestinal illnesses caused by these microscopic parasites. Symptoms of infection include nausea, diarrhea, and cramps. Most healthy people can overcome the disease within a few weeks. However, immuno-compromised people are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their health care provider regarding appropriate precautions to take to avoid infection.

During 2024, the City of Syracuse Water Dept. took two raw water samples (one from each intake) routinely. No *Cryptosporidium* or *Giardia* were detected in any of the City of Syracuse's Raw water samples in 2024.

There have been no reports of health effects caused by *Cryptosporidium* or *Giardia* in Village potable water, and no analytical data to suggest that Village water customers are exposed to these microorganisms. However, the Village is subject to recent USEPA LT2 treatment requirements, which are expected to provide additional disinfection and protection from potential exposure to *Cryptosporidium* and *Giardia*. The Village has met the requirements of the new rule by installing a UV system that was placed into service on March 30, 2012.

FOR ADDITIONAL INFORMATION ON CRYPTOSPORIDIOSIS OR GIARDIASIS PLEASE CONTACT THE ONONDAGA COUNTY HEALTH DEPARTMENT AT 315-435-6600.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. 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 from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by

Cryptosporidium, *Giardia lamblia* and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

INFORMATION ON FLUORIDE ADDITION

Our system is one of the many drinking water systems in New York State that provides drinking water with a controlled, low level of fluoride for consumer dental health protection. Fluoride is added to the water by the City of Syracuse Water Department before it is delivered to the Village of Skaneateles. According to the United States Centers for Disease Control, fluoride is very effective in preventing cavities when present in drinking water in drinking water at a properly controlled level. To ensure that the fluoride supplement in the water provides optimal dental protection, the City of Syracuse Water Department monitors fluoride levels daily to make sure fluoride is maintained at a target level of 0.7mg/l. During 2024 monitoring showed that fluoride levels in the water were within 0.1 mg/l of the target level of 73.05 % of the time. None of the monitoring results showed fluoride at levels that approach the 2.2 mg/l MCL for fluoride.

WHY SAVE WATER AND HOW TO AVOID WASTING IT?

Although our system has an adequate amount of water to meet present and future demands, there are a few reasons why it is important to conserve water:

- Saving water saves energy and some of the costs are associated with both necessities of life.
 - Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
 - Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water use restrictions so that essential fire fighting needs are met.
- Conservation tips include:
- Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So, get a run for your money and load it to capacity.
 - Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it up and you can save almost 6,000 gallons per year.
 - Check your toilets for leaks by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and you save more than 30,000 gallons a year.

CLOSING

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers help us protect our water sources, which are the heart of our community. Please call our office (315-685-3440) if you have questions.