

Annual Drinking Water Quality Report for 2024

TOWN OF JERUSALEM

3816 ITALY HILL ROAD

BRANCHPORT, NY 14418

Public Water Supply ID# NY6101266

INTRODUCTION

To comply with State regulations, the Penn Yan Municipal Water Treatment Plant, will be annually issuing a report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. Last year, your tap water met all State drinking water health standards. The Town of Jerusalem and Village of Penn Yan Municipal Water Treatment Plant conducted tests for over 100 contaminants. This report provides an overview of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to State standards. The Town of Jerusalem was notified that an unsatisfactory total coliform positive water sample was collected from our water system. The Town of Jerusalem continued to test and changed laboratory services to correct the laboratory handling issue.

The Keuka Park Consolidated Water District, to comply with State regulations, is required to redistribute this Annual Drinking Water Quality Report to all Keuka Park Consolidated Water District bill paying customers. The quarterly service bill provides a direct link on the town website www.jerusalem-ny.org. If you would prefer to receive a paper copy, you may request one by email kpsw@jerusalem-ny.org.

If you have any questions about this report or concerning your drinking water, please contact Joe Matthews, Water Operator in Charge. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled sewer and water committee meetings, which are held at 3816 Italy Hill Road, Branchport, NY 14418 the first Wednesday of each month at 7:00 am.

WHERE DOES OUR WATER COME FROM?

In general, 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. In order to ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The State Health Departments and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health. Our sole water source is Keuka Lake. During 2024, our system did not experience any restriction of our water source. The water is pumped for the lake to the Water Treatment Plant located at 1515 West Lake Road. Matthew Fritz is the Chief Operator at the plant. After filtration, disinfection, fluoridation, and corrosion control treatment, the water is pumped to a two-million-gallon reservoir on the hill above the plant. The water then enters the distribution system by means of gravity.

Executive Summary - Water Assessment Report

This assessment found an elevated susceptibility to contamination for this source of drinking water. The amount of agricultural lands in the assessment area results in elevated potential for phosphorus, DBP (disinfection by-products) precursor and pesticide contamination. While there are some facilities present, permitted discharges do not likely represent an important threat to source water quality based on their density in the assessment area. However, it appears that the total amount of wastewater discharged to surface water in this assessment area is high enough to further raise the potential for contamination, particularly for protozoa. There is also noteworthy contamination susceptibility associated with other discrete contaminant sources and these facility types include

CBS (Chemical Bulk Storage) and IHWS (Inactive Hazardous Waste Site).

FACTS AND FIGURES

The Penn Yan Water Treatment facility is a regional plant, which serves all 5,079 residents (2021 census), of Penn Yan through 2316 service connections. In addition, approximately 3,000 residents of the Town of Jerusalem are served through connections at Indian Pines, West Lake Road, East Bluff Drive, Branchport, Guyanoga and Keuka Park with a total of 1,263 service connections. Approximately 1,000 residents in the Town of Milo along East Lake Road are served through 365 service connections. There are approximately 700 residents in the Village of Dresden and along NYS Route 54 that are also served by the Water Treatment Plant through 242 service connections. The Town of Benton also draws water from Penn Yan Water Treatment Plant; Benton currently distributes water to 999 of its residents through 363 connections. In the Town of Pulteney, 658 residents are being serviced through 440 service connections. The total amount of water produced in 2024 was 355,238,200 gallons. The amount of water delivered to all customers in 2024 was 332,016,855 gallons to customers in the other municipalities. A total of 11,241,609 gallons were unavailable for resale, leaving an unaccounted total of 11,979,736 gallons, which was used to flush mains, fight fires, back wash the plant's filters, water main breaks, or was lost through leakage. The daily average amount of water produced per day in 2024 was 972,085 gallons with the highest single day of production totaling 1,556,900 gallons.

The Town of Jerusalem purchased 84,343,131 gallons from the Village of Penn Yan during 2024. For the 2024, Jerusalem billed a capital charge of \$210.47 per EDU; \$95.00 per quarter based on 8,000 gallon minimum.

ARE THERE CONTAMINANTS IN MY DRINKING WATER?

As the state regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: total coliform, turbidity, inorganic compounds, nitrates, lead and copper, volatile organic compounds, total trihalomethanes, halo acetic acids, radiological and synthetic organic compounds. The following table depicts which compounds were detected in your drinking water. The State allows us to test for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. This is why some of our data – though representative – could be more than one year old. It should be noted that all drinking water, including bottled drinking water, could reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the drinking 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 (800-426-4791) or the New York State Department of Health's Geneva Office (315-789-3030).

Picograms per liter (pg/l): Corresponds to one part per of liquid to one quadrillion parts of liquid (parts per quadrillion – ppq).

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

Millirems per year (mrem/yr): A measure of radiation absorbed by the body.

Million Fibers per Liter (MFL): A measure of the presence of asbestos fibers that are longer than 10 micrometers.

Table of Detected Contaminants

Inorganic Contaminants

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg.)	Unit of Measurement	MCLG	Reg. Limit (MCL, TT, or AL)	Likely Source of Contamination
Fluoride	No	8/07/24	0.60	ppm	N/A	2.2	Erosion of natural deposits; water additive which promotes strong teeth; discharge from
Barium	No	8/07/24	15.0	ppb	2.0	2.0	Discharge from drilling waste; discharge from metal refineries; erosion of natural deposits
Nitrate	No	5/03/23	0.20	ppm	--	10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Copper (2)	No	6/07/23	(range) 1. - 0.26 (90 th Percentile) 0.13	ppm	--	1.3	Erosion of natural deposits; leaching; corrosion of household plumbing system; wood preservatives
Lead (3)	No	6/07/23	(range) ND - 23 (90 th Percentile) 1.5	ppb	--	15.0	Erosion of natural deposits; corrosion of household plumbing systems
Arsenic	No	8/07/24	<0.001	ppm	--	0.01	Natural erosion; agriculture and manufacturing operation discharge; mostly from wood preservative chemicals
Nickel	No	8/07/24	<0.001	ppm	--	0.1	The source is electroplated metal coatings; alkaline batteries; alloys like metal welding rods and solder
Sodium	No	8/07/24	2.3	ppm	N/A	See Health Effects	Naturally occurring; road salt; water softeners; animal waste

(2) The level presented represents the 90th percentile of the 30 sites tested. 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 copper values detected at your water system. The action level for copper was not exceeded at any of the sites tested.

(3) The level presented represents the 90th percentile of the 30 samples collected. The action level for lead was exceeded at one of the sites tested.

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg.)	Unit of Measurement	MCLG	Reg. Limit (MCL, TT, or AL)	Likely Source of Contamination
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Turbidity <i>Filters highest Monthly Average</i>	No	08/2024 09/2024	0.12 0.12	NTU	--	TT=95% of samples <0.3 NTU: this number is not to exceed 1 NTU	Soil runoff
Turbidity <i>Filters Single Highest Reading</i>	No	5/10/24 9/12/24	0.16 0.16	NTU	--	TT=95% of samples <0.3 NTU: this number is not to exceed 1 NTU	Soil runoff
Turbidity <i>Distribution System Highest Monthly Avg.</i>	No	2/2024 3/2024 8/2024	0.16 0.16 0.16	NTU	--	TT=<5 NTU	Distribution System

Table of Detected Contaminants

Secondary Microbiological Contaminants

Note: Turbidity is a measure of the cloudiness of the water. We test it because it is a good indicator of the effectiveness of our filtration system. State regulations require that turbidity in the distribution system must always be below 5 NTU.

Table of Detected Contaminants

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg.)	Unit of Measurement	MCLG	Reg. Limit (MCL, TT, or AL)	Likely Source of Contamination
Microbiological Contaminants							
Total Coliform	Yes Three repeat samples after violation. Final result Negative	One sample per month.	--	--	--	MCL=2 or more positive samples in one month	Naturally present in the environment
Radiological Contaminants							
Gross Alpha activity (Including Radium – 226, but Excluding Radon and Uranium)	No	7/10/19	<i>Gross Alpha</i> 0.136 + <i>Radium-226</i> 0.121 Total: 0.257	pCi/L	--	15 pCi/L	Erosion of Natural Deposits
Radium-226 Radium-228	No	7/10/19	<i>Radium-226</i> 0.121 + <i>Radium-228</i> 0.333 Total: 0.454	pCi/L	--	5 pCi/L	Erosion of Natural Deposits

Table of Detected Contaminants Disinfection By-Products Stage 2

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg.)	Unit of Measurement	MCLG	Reg. Limit (MCL, TT, or AL)	Likely Source of Contamination
TTHM (Total Trihalomethanes)	No	2/7/24 5/9/24 8/14/24 11/14/24	Max LRAA 52.75 Range of Results (21-71.3)	ppb	--	80	By-product of drinking water chlorination needed to kill harmful organisms. THMs are formed when source water contains large amounts of organic matter.
HAA5s (Halo Acetic Acids)	No	2/7/24 5/9/24 8/14/24 11/14/24	Max LRAA 29. Range of Results (14-35.2)	ppb	--	60	By-product of drinking water disinfection needed to kill harmful organisms

Note: This level represents the highest locational running annual average calculated quarterly from data collected.

DEFINITIONS:

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible.

Maximum Contaminant Level Goal (MCLG): 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.

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.

Maximum Residual Disinfectant Level Goal (MRDLG): 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 contamination.

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

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

Non-Detects (ND): Laboratory analysis indicates that the constituent is not present.

Nephelometric Turbidity Unit (NTU): A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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

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

ppb – parts per billion

ppm – parts per million

WHAT DOES THIS INFORMATION MEAN?

We have learned through our testing procedures that, while some contaminants have been detected; however, the table(s) above show that these contaminants were detected below the level allowed by the State.

IS THE WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

The Village of Penn Yan is 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, our system was in full compliance with applicable State drinking water operating, monitoring, and reporting requirements.

INFORMATION ON SODIUM

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.

INFORMATION ON FLUORIDE ADDITION

Our System is one of the many water distribution systems in New York State that provides drinking water with a controlled, low level of fluoride for consumer dental health protection. According to the United States Centers for Disease Control, fluoride is very effective in preventing cavities when present in drinking water at an optimal range from 0.8 to 1.0 mg/l (parts per million). To ensure that the fluoride supplement in your water provides optimal dental protection, the State Department of Health requires that we monitor fluoride levels on a daily basis to make sure fluoride is maintained at a target level of **0.7 mg/l**. During **2024**, monitoring showed fluoride levels in your water were within 0.2 mg/l of the target level. None of the monitoring results showed fluoride at levels that approached the maximum limit of 2.2 mg/l MCL for fluoride.

LEAD IN DRINKING WATER

As you can see by the table, our system had no lead violations, but we are required to present the following information on lead in drinking water:

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. The Penn Yan Municipal Water Treatment Plant is responsible for providing high quality drinking water and removing lead pipes. But cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry, or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have

your water tested, contact the Town of Jerusalem – Keuka Park Consolidated Water District email: kpsw@jerusalem-ny.org or 315-595-6657. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

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 contacting the Town of Jerusalem, Town Clerk at 3816 Italy Hill Road, Branchport, NY 14418, or email townclerk@jerusalem-ny.org.

DO I NEED TO TAKE ANY SPECIAL PRECAUTIONS?

Although your drinking water meets or exceeds state and federal regulations, some people may be more vulnerable to disease-causing microorganisms or pathogens in drinking water than the general population. Persons with compromised immune systems, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS, those with other immune system disorders, some elderly, and some infants can be at risk of infections. These people should seek advice from their health care provider(s) about their drinking water. EPA and CDC guidelines on ways to lessen the risk of infection from Cryptosporidium, Giardia or other microbial pathogens are available from the Safe Drinking Water Hotline (1-800-426-4791).

SYSTEM IMPROVEMENTS

In 2024, the Town Board of the Town of Jerusalem has begun a reconstruction project (Phase III) to the Keuka Park Consolidated Water District (“KPCWD”) to consist of water main replacement consisting of approximately 5100 feet of 8-inch-high density polyethylene (HDPE) pipe, 1400 linear feet of new 12-inch HDPE pipe and 1300 linear feet of new 1-inch HDPE water service pipe, such replacements to take place on Assembly Avenue, Central Avenue, State Route 54A and Lake Avenue. As part of this Project, approximately 50 services will be disconnected from the old main and reconnected to the new water main in the same vicinity as the current services and will also be provided with a new curb stop and curb box. This Project will also replace 8 existing fire hydrants with new hydrants and guard valves in approximately the same location and will also install 15 new valves at water main tee fittings allowing the Town to isolate branches of water main on either side of the tee fittings.

WHY CONSERVE WATER?

There are a number of reasons why it is important to conserve water:

- ◆ Saving water saves energy and some of the costs associated with both of these 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; this helps avoid severe water use restrictions and ensures that water is available for essential firefighting needs.

You can play a role in conserving water by becoming conscious of the amount of water your household is using and by looking for ways to use less water whenever you can.

CONSERVATION TIPS INCLUDE:

- ◆ Load your dishwasher to capacity; automatic dishwashers use 15 gallons for every cycle regardless of how many dishes are loaded.

- ◆ Turn off the tap while brushing your teeth.
- ◆ Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons of water a day. Fix the leak and you'll save almost 6,000 gallons of water per year.
- ◆ Check your toilets for leaks by putting a few drops of food coloring in the tank or a leak detection tablet (which can be obtained from the Municipal Office). 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 a minor toilet water leak, so fixing this problem can save you more than 30,000 gallons of water a year.
- ◆ Use your water meter to detect hidden leaks. Simply turn off all taps and water-using appliances; check the meter after 15 minutes.
If it moved, you have a leak.

IN CONCLUSION

Thank you for allowing us to continue to provide you and your family with quality drinking water. We ask that all of our customers help us protect our water sources, which are the heart of our community. Please call our office if you have any questions or concerns.

(Prepared March 2025)