**2024 Annual Drinking Water Quality Report**

**Village of Dresden**

**PO Box 156**

**3 Firehouse Avenue**

**Dresden, NY 14441**

(Public Water Supply ID# NY6101261)

#### Introduction

To comply with State regulations, the Penn Yan Municipal Utilities Board issues this annual report, which describes the quality of your drinking water. The purpose of this report is to provide you with an understanding of what is in your drinking water, create awareness of the need to protect our drinking water sources, and provide tips on how to conserve water. This report provides an overview of last year’s water quality, including what your water contains and how it compares to State standards.

If you have any questions about this report or your drinking water in general, please call **Brian Ellis, Superintendent of Public Works, Village of Dresden, NY, 14441, at (315) 536-2477**. If you want to learn more, you may attend any of the regularly scheduled Village of Dresden Board of Trustees meetings, which are held at 3 Firehouse Avenue, Dresden, in the meeting room at 7:00 p.m. on the third Wednesday of each month. For more information, call the Village Office at 315-536-2477 Monday through Thursday between 8:00am and 2:30pm. For the hearing impaired, the TDD number is 1-800-662-1220.

#### Where does my 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 Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. State Health Department and Food and Drug Administration 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 its water source. The water is pumped from 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.

#### Source Water Assessment Report

A report was completed under the New York State Department of Health’s Source Water Assessment Program (SWAP). The information contained in the report assists the State in overseeing public water systems and helps local authorities protect the quality of their source water. It is important to note that source water assessment reports estimate the potential for untreated drinking water sources to be impacted by contamination. These reports do not address the safety or quality of treated, finished, potable tap water.

#### 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

Our water treatment facility is a regional plant, owned by the Village of Penn Yan, which serves approximately **700** residents in the Village of Dresden and along NYS Route 54 that are also served by the Water Treatment Plant though **242** service connections. The total amount of water produced by the Water Treatment Plant in **2024** was **355,238,200** gallons. The amount of water delivered to all customers in **2024** was **332,016,855** gallons of which **162,990,381** gallons were sold to Village of Penn Yan accounts and **169,026,474** gallons to customers in the other municipalities. A total of **11,241,609** 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. The highest single day of production in **2024** was **1,556,900** gallons.

In **2024**, water customers in the Village of Dresden were charged $**10.90** per 1,000 gallons of water every two month. Water customers outside the Village of Dresden were charged $**12.90** per 1,000 gallons every two months. Water customers in and outside the Village are charged a flat connection fee ($19.00) per EDU (Equivalent Dwelling Unit).

#### 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, haloacetic 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 be reasonably expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that 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).

**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 | 8/7/2024 | 0.6 | | ppm | | N/A | | 2.2 | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer |
| **Barium** | No | 8/7/2024 | 0.015 | | ppm | | 2 | | 2 | Discharge from drilling waste; discharge from metal refineries; erosion of natural deposits |
| **Nitrate** | No | 5/1/2023 | 0.21 | | ppm | | -- | | 10 | Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits |
| **Copper (*2*)** | No | 6/7/2023 | (range) 0.01 - 0.26  (90th Percentile) 0.13 | | ppm | | -- | | 1.3 | Erosion of natural deposits; leaching; corrosion of household plumbing system; wood preservatives |
| **Lead (*3*)** | No | 6/7/2023 | (range) ND - 23  (90th Percentile) 1.5 | | ppb | | -- | | 15 | Erosion of natural deposits; corrosion of household plumbing systems |
| **Arsenic** | No | 8/7/2024 | <0.001 | | ppm | | -- | | 0.01 | Natural erosion; agriculture and manufacturing operation discharge; mostly from wood preservative chemicals |
| **Inorganic Contaminants *Continued…*** | | | | | | | | | | |
| **Contaminant** | **Violation Yes / No** | **Date of Sample** | **Level Detected (Avg.)** | **Unit of Measurement** | | **MCLG** | | **Reg. Limit (MCL, TT, or AL)** | | **Likely Source of Contamination** |
| **Nickel** | No | 8/7/2024 | 0.71 | ppm | | -- | | 0.1 | | The source is electroplated metal coatings; alkaline batteries; alloys like metal welding rods and solder |
| **Sodium** | No | 8/7/2024 | 23 | 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 not exceeded at any of the sites tested.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Secondary* Microbiological 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** |
| **Turbidity** *Filters highest Monthly Average* | No | 8/2024  9/2024 | 0.12  0.12 | NTU | -- | TT = 95% of samples  < 0.3 NTU: this number is  not to exceed 1.0 NTU | Soil  Runoff |
| **Turbidity** *Filters Single Highest Reading* | No | 5/10/2024  9/12/2024 | 0.16  0.16 | NTU | -- | TT = 95% of samples  < 0.3 NTU: this number is  not to exceed 1.0 NTU | Soil  Runoff |
| **Turbidity** *Distribution System Highest Monthly Avg.* | No | 2/2024 3/2024 8/2024 | 0.16 0.16 0.16 | NTU | -- | TT = < 5.0 NTU | Distribution System |

***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 5.0 NTU.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Microbiological 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** |
| **Total Coliform** | No | **ONE** sample  per month | -- | -- | -- | MCL=2 or more positive samples in one month | Naturally present in the environment |
| **Radiological 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** |
| **Gross Alpha activity** | No | 7/10/2019 | *Gross Alpha* 0.136 | pCi/L | -- | 15 pCi/L | Erosion of Natural Deposits |
| **Radium-226** | No | 7/10/2019 | *Radium-226* | pCi/L | -- | 5 pCi/L | Erosion of Natural Deposits |
|  | 0.121 |
|  | **+** |
| **Radium-228** | *Radium-228* |
|  | 0.333 |
|  |  |
|  | Total: 0.454 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 1/31/2024  5/1/2024  8/14/2024  11/6/2024 | Max LRAA 45.775  Range of Results (*28.10   - 59.40*) | 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. |
| **HAA5*s*  (*Haloacetic Acids*)** | No | 1/31/2024  5/1/2024  8/14/2024  11/6/2024 | Max LRAA 18.375  Range of Results (*12.70  - 21.40*) | ppb | -- | 60 | By-product of drinking water disinfection needed to kill harmful organisms |

***Note:*** This level represents the highest *Locational Running Annual Average* calculated from data collect

***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 (*same as “parts per billion” – ppb*).

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

**ppb**: parts per billion (*same as “micrograms per liter” – ug/L*).

**ppm**: parts per million (*same as “milligrams per liter” – mg/L*).

#### 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 Dresden 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**, the Village of Penn Yan’s and the Village of Dresden’s system was in full compliance with applicable State drinking water operating, monitoring, and reporting requirements. *Except for the month of March. The Village of Dresden is required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether your drinking water meets health standards. During the month of March 2024, we did not fully monitor or test for coliform and therefore cannot be sure of the quality of your drinking water during that time.*

***Information of Sodium***

Water containing more than 20mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270mg/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 daily 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: If present, elevated levels of lead can cause serious health problems, especially for pregnant women, infants and young children. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home’s plumbing. Penn Yan Municipal Utilities is responsible for providing high quality drinking water but cannot control the materials used in plumbing components. If your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for thirty seconds to two minutes before using the water to drink or cook. 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 (1-800-426-4791) or at the web site www.epa.gov/safewater/lead.

#### Information on Lead Service Line Inventory

A Lead Service Line (LSL), is defined as any portion of a pipe that is made of lead which connects the water main to the building inlet. A Lead Service Line may be owned by the water system, by the property owner, or both. The inventory includes both potable and non-potable Service Lines within a system. In accordance with the federal Lead and Copper Rule Revisions (LCRR), our system has prepared a lead service line inventory, if you would like to see a copy please stop in at the Office during business hours.

#### 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**, we did not have the need for any major upgrades. All customer meters have been replaced with Kamstrup meters, except those in meter pits. Preventative maintenance was completed to Valves on the Transmission Water Main along Route 54 above the tank. The Village of Dresden has been awarded two grants – one to install a generator at the Water Building and one to replace the Water Main from the Water Tank down Route 54 into and throughout the Village.

#### 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 our customers help us protect our water sources, which are the heart of our community.

Please call our office if you have questions.

* Village of Dresden (315) 536-2477
* New York State Department of Health (315) 789-3030

**(Prepared April 2025)**