

# **Mayville**

## **Water**

### **Department**



*Annual Drinking Water Quality Report for 2013*  
*Village of Mayville*  
*P.O. Box 188*  
*Mayville, NY 14757*  
*Public Water Supply ID# NY0600368*

#### **INTRODUCTION**

To comply with State regulations, Village of Mayville, annually issues 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. We are proud to report that our system did not violate a maximum contaminant level or any other water quality standard. 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.

If you have any questions about this report or concerning your drinking water, please contact John Crandall, Village Clerk, at (716)753-2125. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled village board meetings. The meetings are held on the 2<sup>nd</sup> Tuesday of every month, in the upstairs of the Community Building at 7:00 PM.

#### **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 Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water system serves about 1856 people and several small businesses through 788 service connections. The Village of Mayville water system has three artesian production wells with pumps. Chlorine is added to the water to meet all N.Y.S. codes. The Village of Mayville has three licensed water operators; Daniel Engdahl (grades C and D), Gary Biekert (grades IIB and D) and Shawn Ecklund (grade D).

The NYS DOH has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The state source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the wells. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is, or will become contaminated. While nitrates and other inorganic contaminants were detected in our water, it should be noted that all drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants from natural sources. The presence of contaminants does not necessarily indicate that the water poses a health risk. See section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected.

As mentioned before, our water is derived from 3 drilled wells. The source water assessment has rated these wells as having a medium susceptibility to enteric viruses, salts, sulfates, petroleum products, and other industrial solvents. These ratings are primarily due to the close proximity of an oil and gas well and homes in the area. While our wells

draw water from a confined aquifer) an aquifer bounded above and below by geology that restricts the passage of ground water), the aquifer recharge area (the section of land that receives precipitation and allows it to infiltrate into the aquifer) is considered vulnerable to potential sources of contamination.

### ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: total coliform, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, and synthetic organic compounds. The table presented below 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. Some of our data, though representative, are more than one year old.

It should be noted that all drinking water, including bottled drinking water, may be reasonably 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 EPA's Safe Drinking Water Hotline (800-426-4791) or the Chautauqua County Health Department at 716-753-4481.

**Table of Detected Contaminants**

Contaminant	Violation	Date of Sample	Level Detected	Unit Measurement	Regulatory Limit (MCL, AL)	MCLG	Likely Source of Contamination
-------------	-----------	----------------	----------------	------------------	----------------------------	------	--------------------------------

#### INORGANICS CONTAMINANTS

Nitrate (Well #1)	No	4/18/13	0.90	mg/l	10(MCL)	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate (Well #2)	No	4/18/13	1.03	mg/l	10(MCL)	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate (Well #3)	No	4/18/13	0.81	mg/l	10(MCL)	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium	No	3/21/08	50.1 <sup>1</sup> Range 18.6 – 50.1	mg/l	See note#1	N/A	Naturally occurring; Road salt; Water softeners; Animal waste.
Chloride	No	10/27/09	86.7 Range 37.3 – 86.7	mg/l	250(MCL)	N/A	Naturally occurring or indicative of road salt contamination.
Lead	No	7/31/13	5.2 <sup>2</sup> Range ND – 5.7	ug/l	15 (AL)	0	Corrosion of household plumbing systems; Erosion of natural deposits;
Copper	No	7/31/13	0.149 <sup>2</sup> Range 0.0102-0.324	mg/l	1.3 (AL)	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.
Barium (Entry pts. 1&2)	No	9/18/12	0.145 Range 0.130-0.160	mg/l	2(MCL)	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Sulfate	No	2/7/02	24	mg/l	250(MCL)	N/A	Naturally occurring

#### RADIOLOGICAL

Radium	No	6/19/08	1.58 Range 0–1.58	pCi/l	5(MCL)	0	Erosion of natural deposits.
Gross Beta	No	8/21/00	0.8-1.6	pCi/l	50(MCL)	0	Decay of natural deposits and man-made emissions.

#### DISINFECTION BYPRODUCTS

Total Trihalomethanes	No	8/1/13	18.8	ug/l	80(MCL)	N/A	By-product of drinking water chlorination needed to kill harmful organisms. TTHMS are formed when source water contains large amounts of organic matter.
Haloacetic Acids	No	8/1/13	4.48	ug/l	60(MCL)	N/A	By-products of drinking water chlorination.

#### DISINFECTANTS

Chlorine Residual	No	Daily (2013)	avg. 0.64 Range 0.48-0.79	mg/l	4(MCL)	N/A	Water additive used to control microbes.
-------------------	----	--------------	---------------------------------	------	--------	-----	--

---

**Notes:**

1 – Severely restricted sodium diets shouldn't drink water with 20 mg/l of sodium or more.

2 The level presented represents the 90<sup>th</sup> percentile of the 10 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 90<sup>th</sup> percentile is equal to or greater than 90% of the lead values detected at your water system. In this case, ten samples were collected at your water system and the 90<sup>th</sup> percentile value was the value 2.6 ug/l. The action level for lead was not exceeded at any of the sites tested.

3 – The level presented represents the 90<sup>th</sup> percentile of ten samples collected. The action level for copper was not exceeded at any of the 10 sites tested.

**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 that is 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.

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

**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).

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

**WHAT DOES THIS INFORMATION MEAN?**

As you can see by the table, our system had no violations. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State.

**IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?**

During 2013, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

**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 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 from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

**INFORMATION FOR NON-ENGLISH SPEAKING RESIDENTS****Spanish**

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

**French**

Ce rapport contient des informations importantes sur votre eau potable. Traduisez-le ou parlez en avec quelqu'un qui le comprend bien.

**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 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, helping to avoid severe water use restrictions so that essential fire fighting needs are met.

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 whenever you can. It is not hard to conserve water. 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.
- ◆ Turn off the tap when brushing your teeth.
- ◆ 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.
- ◆ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances. Then check the meter after 15 minutes. If it has moved you have a leak.

## **CLOSING**

Thank you for allowing us to continue to provide your family with quality drinking water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements. 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.