

ANNUAL WATER QUALITY REPORT  
2018  
TOWN OF MARTINSBURG  
MARTINSBURG WATER DISTRICT #1  
Public Water System ID#2402367  
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**Introduction**

To comply with the Safe Drinking Water Act, the Town of Martinsburg 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. 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 Mary Kelley, Town Clerk, 376-2299 or the Martinsburg Highway Department, 376-2309. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled town board meetings. The meetings are held the third Wednesday each month at 7:00 P.M. at the Town Offices, 5405 Cemetery Road, Martinsburg, N.Y.

**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 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*, 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 can 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 and residential uses.
- *Radioactive contaminants*, which are naturally occurring.
- *Organic contaminants*, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and can also come from gas stations, urban stormwater runoff and septic systems.

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.

Your new water system consists of five drilled wells located in the town's approximately 7 acre well field on Cemetery Street. The wells go approximately 40 feet into a gravel aquifer. The water is chlorinated at the new pump station/control building and pumped directly into the water line grid for direct use by the consumer and/or transferred by the same water mains to a storage tank. The district has a 189,000 gallon capacity Aquastore bolted, steel water storage tank. The tank is located at the east end of the distribution grid. According to recent metered usage, the average daily flow is approximately 46,000 gallons per day. No fluoride is added to the water.

The water district services 109 single family homes, 2 multi-family homes, 9 commercial properties and 8 farms.

**Water rates:**

The following rates were adopted March 16, 2005. At the present time, the capital cost is \$50.50 per meter/unit, per year. Bills are sent out January 1 and July 1. Meters will be read the last week of June for the July billing.

- a) \$75.00 minimum up to 30,000 gallons used, plus capital
- b) 30,001 gallons 100,000 gallons, \$2.50 per 1000 gallons, plus capital
- c) Over 100,000 gallons, \$1.75 per 1000, plus capital

**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, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes 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, is 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 New York State Department of Health, Watertown Office, 317 Washington St., Watertown, New York 13601, 315-785-2277.

**TEST RESULTS**

CONTAMINANT	Violation Y or N	Date of Sample	Level Detected	Unit Measurement	MCL	Likely Source of Contamination
<b>Radioactive Contaminants</b>						
Gross alpha activity (including radium-226, But excluding radon and uranium)	No	12/19/2018	-0.153	pCi/L	15	Erosion of natural deposits.
Radium - 226	No	12/19/2018	0.000	pCi/L	5	Erosion of natural deposits
Radium – 228	No	12/19/2018	0.198	pCi/L	5	Erosion of natural deposits

<b>Inorganics</b>						
Barium	No	08/14/17 Composite	.0175	mg/l	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Fluoride	No	08/14/17	<0.2	mg/l	2.2	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.
Nitrogen, Nitrate	No	12/11/2018	5.59	mg/l	10	Soil runoff.
<b>Disinfection ByProducts</b>						
Total Trihalomethanes (TTHMs-chloroform, bromodichloromethane, dibromochloromethane, and bromoform	No	08/23/16	6	ug/l	80	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(mono- ,di-,and trichloroacetic acid and mono- and di- bromoacetic acid)	No	08/23/16	5.9	ug/l	60	By-Product of drinking water disinfection needed to kill harmful organisms.

Monthly testing for coliform was negative.

In September, 2017 we collected and analyzed 10 samples for lead. The action level for lead was not exceeded at any site tested. 90<sup>th</sup> percentile lead – 2.9 ppb. Lead limit is 15.

The source of lead in drinking water may come from corrosion of household plumbing systems or erosion of natural deposits.

In September, 2017 we collected and analyzed samples for copper. 90<sup>th</sup> percentile copper – 143.8 ppb. The action level for copper was not exceeded at any site. Copper limit is 1300.

The source of copper in drinking water may come from corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action

level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below New York State requirements.

## 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 are 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.

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

**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 liquid in one billion parts of liquid (parts per billion-ppb).

## Do I need to take special precautions?

Although our drinking water met or exceeded state and federal regulations, 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 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).

## Indoor Water Conservation Tips

### General

- Never pour water down the drain when there may be another use for it. Use it to water your indoor plants and garden.
- Repair dripping faucets by replacing washers. One drop per second wastes 2,700 gallons of water per year!
- Check all plumbing for leaks. Have leaks repaired by a plumber.
- Retrofit all household faucets by installing aerators with flow restrictors.
- Install an instant hot water heater on your sink.
- Insulate your water pipes to reduce heat loss and prevent them from breaking.
- Install a water-softening system only when the minerals in the water would damage your pipes. Turn softener off while on vacation.
- Choose appliances that are more energy and water efficient.

### Bathroom

- Consider purchasing a low-volume toilet that uses less than half the water of older models.
- Install a toilet displacement device to cut down on the amount of water needed to flush. Place a one-gallon plastic jug of water into the tank to displace toilet flow (do not use a brick, it may dissolve and loose pieces may cause damage to the internal parts.) Be sure installation does not interfere with the operating parts.
- Replace showerhead with an ultra-low-flow version.
- Place a bucket in the shower to catch excess water for watering plants.
- Avoid flushing the toilet unnecessarily. Dispose of tissue, insects and other similar waste in the trash rather than the toilet.
- Avoid taking baths – take short showers – turn on water only to get wet and lather and then again to rinse off.
- Avoid letting the water run while brushing your teeth, washing your face or shaving.

### Kitchen

- Operate automatic dishwashers only when they are fully loaded. Use the "light wash" feature, if available, to use less water.
- Hand wash dishes by filling two containers – one with soapy water and the other with rinse water containing a small amount of chlorine bleach.
- Clean vegetables in a pan filled with water rather than running water from the tap.
- Start a compost pile as an alternate method of disposing of food waste or simply dispose of food in the garbage. (Kitchen sink disposals require a lot of water to operate properly.)
- Store drinking water in the refrigerator. Do not let the tap run while you are waiting for water to cool.
- Avoid wasting water waiting for it to get hot. Capture it for other uses such as plant watering or heat it on the stove or in a microwave.
- Avoid rinsing dishes before placing them in the dishwasher; just remove large particles of food. (Most dishwashers can clean soiled dishes very well, so dishes do not have to be rinsed before washing.)
- Avoid using running water to thaw meat or other frozen foods. Defrost food overnight in the refrigerator or use the defrost setting on your microwave oven.

### Laundry

- Operate automatic clothes washers only when they are fully loaded or set the water level for the size of your load.\

## Outdoor Water Conservation Tips

- Check your well pump periodically. If the automatic pump turns on and off while water is not being used, you have a leak.
- Plant native and/or drought-tolerant grasses, ground covers, shrubs and trees. Once established, they do not need water as frequently and usually will survive a dry period without watering. Small plants require less water to become established. Group plants together based on

similar water needs.

- Install irrigation devices that are the most water efficient for each use. Micro and drip irrigation and soaker hoses are examples of efficient devices.
- Use mulch to retain moisture in the soil. Mulch also helps control weeds that compete with landscape plants for water.
- Avoid purchasing recreational water toys that require a constant stream of water.
- Avoid installing ornamental water features (such as fountains) unless they use recycled water.

#### **Car Washing**

- Use a shut-off nozzle that can be adjusted down to a fine spray on your hose.
- Use a commercial car wash that recycles water. If you wash your own car, park on the grass so that you will be watering it at the same time.

#### **Lawn Care**

- Avoid over watering your lawn. A heavy rain eliminates the need for watering for up to two weeks. Most of the year, lawns only need one inch of water per week.
- Water in several short sessions rather than one long one, in order for your lawn to better absorb moisture.
- Position sprinklers so water lands on the lawn and shrubs and not on paved areas.
- Avoid sprinklers that spray a fine mist. Mist can evaporate before it reaches the lawn. Check sprinkler systems and timing devices regularly to be sure they operate properly.
- Raise the lawn mower blade to at least three inches or to its highest level. A higher cut encourages grass roots to grow deeper, shades the root system and holds soil moisture.
- Plant drought-resistant lawn seed.
- Avoid over-fertilizing your lawn. Applying fertilizer increases the need for water. Apply fertilizers that contain slow-release, water-soluble forms of nitrogen.
- Use a broom or blower instead of a hose to clean leaves and other debris from your driveway or sidewalk.
- Avoid leaving sprinklers or hoses unattended. A garden hose can pour out 600 gallons or more in only a few hours.

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 any questions.