

April 2014

Annual Drinking Water Quality Report for 2013
Village of Montgomery Water System
133 Clinton Street, Montgomery, NY
(Federal ID 3503542)

This report is basically the same as the reports you have received in the past, very little has changed. Testing of our water supply system to be sure the drinking water that the Village of Montgomery delivers to your home or business remains safe, continues. The Department of Public Works will be flushing hydrants beginning with the week of April 14th – April 18th 2014. Again, you will experience some brown water during this period. When the brown water occurs, run your water until it clears, (usually about 5 minutes).

The NYS DOH has completed a source water assessment for this system based on available information. Possible and actual threats to the 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. See “Table of Detected Contaminants” for a list of the contaminants that have been detected. The source water assessments provide resource managers with additional information for protecting source waters into the future.

As mentioned before, our water is derived from six drilled wells. The source water assessment has rated these wells as having a medium-high susceptibility to microbials, nitrates, industrial solvents, and other industrial contaminants. These ratings are due primarily to the close proximity of a SPDES permitted discharge facility (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/federal government), the low-level residential activity and the pasture that is located in the assessment area. In addition, the wells draw from fractured bedrock and various aquifers and the overlying soils may not provide adequate protection from potential contamination. While the source water assessment rates our wells as being susceptible to microbials, please note that our water is disinfected to ensure that the finished water delivered into your home meets New York State’s drinking water standards for microbial contamination. A copy of the assessment, including a map of the assessment area, can be obtained by contacting us, as noted in this report.

To comply with State and Federal regulations, the Village of Montgomery 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. 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 Department of Public Works Superintendent Ralph Nelson at 457-5321. 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 the 1st and 3rd Tuesday of each month at 133 Clinton St., Montgomery, NY.

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; 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.

Facts and Figures:

Our water system serves approx. 3800 people thru approx. 1400 service connections. The total water produced in 2013 was 89,403,000 gallons. The daily average of water treated and pumped into the distribution system was 245,000 gallons per day. Our highest single day was approx. 395,000 gallons. The amount of water delivered to customers was 75,920,000 gallons. This leaves an unaccounted for total of 13,483,000 gallons in 2013. This water was used to flush mains, fight fires, and water main breaks. Water customers were charged \$2.85 per 1,000 through 49,999 gallons and \$3.45 per 1,000 for 50,000 and above. Minimum charge for water is \$11.40.

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 Orange County Health Department at 291-2331.

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 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. Some of the compounds we analyzed for were detected in your drinking water but below Health Dept. standards. Below is a table of detected contaminants.

Some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immune-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).

Copper;

The level presented represents the 90th percentile of the twenty 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. In this case, twenty samples were collected at your water system and the 90th percentile value was the third highest sample taken which was .27 mg/l. The action level for copper was not exceeded at any of the sites tested.

Lead;

The level presented represents the 90th percentile of the twenty 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 lead values detected at your water system. In this case, twenty samples were collected at your water system and the 90th percentile value was of the third highest sample taken which was 3.2 ug/l. The action level for lead was not exceeded at any of the sites tested.

Maximum Residual Disinfectant Level (MDRL) : 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. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

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.

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 indicated 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.

Ralph Nelson
Superintendent of Public Works

Table of Detected Contaminants

Contaminant	Violation Yes/No	Date Of Sample	Level Detected (Maximum or Range)	Unit Measurement	MCLG
Lead	No	June 2013 July 2013	90th = 3.2 Range = ND - 9.1	ug/l	0
Copper	No	June 2013 July 2013	90th = 0.27 Range = .014 - .49	mg/l	1.3
Nitrate	No	May 9, 2013	average = 1.4 range= ND - 3.1	mg/l	10 mg/l
Total Trihalomethanes	No	August 2011	average=23.48 range 1.04-47.30	ug/l	N/A
Haloacetic Acid	No	August 2011	average=8.9 range=1.3-22.7	ug/l	N/A
Antimony	No	July 17, 2012	Average = 0.17 Range = ND - 0.51	ug/l	6
Chromium	No	Dec. 1, 2009	Average = 6 Range = 4.5 - 7.5	ug/l	100
Nickel	No	July 17, 2012	Average = 2.0 Range = 1.7-2.5	ug/l	N/A
Barium	No	July 17, 2012	Average = 77 Range = 27-140	ug/l	2,000
Combined Radium	No	May 9, 2013	Average = 0.92 Range = 0.87 - 1.01	pci/L	0

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Regulatory Limit (MCL- TT or AL)	Likely Source of Contamination
AL = 15	Corrosion of household plumbing systems
AL = 1.3	Corrosion of household plumbing systems
10 mg/l	Run-off from fertilizer use
80 ug/l	chlorination needed to kill harmful organisms. TTHs are formed when
60 ug/l	Formed when source water contains large amounts of organic matter
6	Naturally occurring
100	Naturally occurring
100	Naturally occurring
2,000	Naturally occurring
5	Erosion of natural deposits