

**Annual Drinking Water Quality Report for 2019**  
***Town of Ellicottville Consolidated Water District No. 1***  
**P. O. Box 600, Ellicottville, New York 14731**  
**(Public Water Supply ID NY0412217)**  
***Town of Great Valley Water District No. 2***  
**P. O. Box 291, Great Valley, New York 14741**  
**(Public Water Supply ID NY0430002)**

## **INTRODUCTION**

To comply with State and Federal regulations, the Town and Village of Ellicottville and the Town of Great Valley will be annually issuing a report describing the quality of your drinking water. Be advised that as of 1/1/2020, the Village and Town water systems are being operated as one system (Town of Ellicottville Consolidated Water District No. 1) so all of the reported information is being consolidated into one report. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. 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 your drinking water quality, please contact either Niles Pierson, Town Engineer, or Jesse Klahn, Chief Water Operator, at (716) 699-9005. 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. Town of Ellicottville Board meetings are held on the third Wednesday of the month at 6:00 P.M. in the Town Hall located at One West Washington Street. Town of Great Valley Board meetings are held on the second Monday of the month at 7:00 P.M. at the Town Hall located at 4808 Route 219 in Great Valley.

## **WHERE DOES OUR WATER COME FROM?**

In general, the sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, 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.

The Town of Ellicottville Consolidated Water District #1 serves 1,420 people through 1,471 service taps and Great Valley Town Water District #2 (SnowPine Village) serves approximately 320 people through 91 service connections. Our water source is groundwater. Great Valley Water District # 2 purchases all of its water from the Town of Ellicottville. The Town of Ellicottville owns and operates 3 wells. 1) Town Well #1 is approximately 52 feet deep in a sand and gravel aquifer and is capable of producing 400 gallons a minute. 2) Village Well #1 is 70 feet deep and can produce 400 gallons per minute. 3) Village Well #3 is 65 feet deep and can produce 500 gallons per minute. The water produced is disinfected by the addition of chlorine prior to being pumped into the distribution system

In 2003, the NYS DOH completed a source water assessment for our water system based on available information. Possible and actual threats to the drinking waters sources were evaluated. The source water assessment includes susceptibility ratings based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the well. The susceptibility rating is an estimate of the potential contamination of the source water. It does not mean that the water delivered to consumers is, or will become contaminated. See section "ARE CONTAMINANTS IN OUR DRINKING WATER?" 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.

The source water assessment has rated the susceptibility to contamination for the Town Well as high from enteric bacteria, enteric viruses, cations/anions (salts, sulfate), halogenated solvents, metals, nitrates, other industrial organics, petroleum products and protozoa; and medium-high from herbicides/pesticides. These ratings for the well are due to its proximity to community development and permitted discharge facilities (industrial/ commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government). While the assessment rates our source as being susceptible to enteric bacteria, please note that our water is disinfected to ensure that the finished water delivered into your home meets New York State drinking water standards.

The source water assessment has rated the combined susceptibility to contamination for the Village wells as; high from enteric bacteria, enteric viruses, halogenated solvents, herbicides/pesticides, metals, nitrates, other industrial organics and petroleum products; and medium-high from protozoa. These ratings for the wells are due to their proximity to former hazardous waste sites, waste lagoons, underground storage tanks and permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government).

A copy of these assessments, including maps of the assessment areas, can be obtained by contacting us, as noted above.

## ARE CONTAMINANTS IN OUR DRINKING WATER?

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: coliform bacteria, inorganic compounds, nitrate, lead and copper, volatile organic compounds, disinfection byproducts, radiological and synthetic organic compounds. We also monitor the chlorine residuals daily. 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 water, might 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 at 800-426-4791 or the Cattaraugus County Health Department at 716-701-3386. More information is also available directly from the EPA website: <https://www.epa.gov/dwreginfo/drinking-water-regulations>.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contamination
<b>Disinfectants</b>							
Chlorine Residual - Ellicottville (T)	No	2019	Avg. = .46 (.12 – 1.16)	mg/l	N/A	MRDL = 4	Water additive used to control microbes.
- Ellicottville (V)	No	2019	Avg. = .43 (.19 – .63)				
- Great Valley WD #2	No	2019	Avg. = .33 (.16 – .47)				
<b>Microbiological Contaminant</b>							
Total Coliform - Ellicottville (T)	No	12/16/19	1 Positive	N/A	N/A	TT = 2 or more positive samples	Naturally present in the environment.
- Ellicottville (V)	No	12/16/19	1 Positive				
<b>Inorganic Contaminants</b>							
Barium - Town Well	No	5/2/17	329	ug/l	2,000	MCL = 2,000	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
- Village Wells	No	2017	Avg. = 284 (270 - 297)				
Copper <sup>1</sup> - Ellicottville (T) & GV #2	No	9/26/18	121 (18 - 129)	ug/l	1,300	AL = 1,300	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
- Ellicottville (V)	No	9/25/18	120 (12 – 121)				
Lead <sup>2</sup> - Ellicottville (T) & GV #2	No	9/26/18	2.8 (<1 – 24.5)	ug/l	0	AL = 15	Corrosion of household plumbing; erosion of natural deposits.
- Ellicottville (V)	No	9/25/18	6.6 (<1 – 7.8)				
<b>Disinfection By-Products</b>							
Haloacetic Acids - Ellicottville (T)	No	8/14/19	4.9	ug/l	N/A	MCL = 60	By-product of drinking water disinfection needed to kill harmful organisms.
- Great Valley Dist. #2	No	8/14/19	3.4				
Total Trihalomethanes - Ellicottville (T)	No	8/14/19	18.4	ug/l	N/A	MCL = 80	By-product of drinking water disinfection needed to kill harmful organisms.
- Great Valley Dist. #2	No	8/14/19	14.2				

**Notes:**  
 1 - The level presented represents the 90th percentile of the 10 sites tested in the Town (Town and GV TWD #2) and the 10 sites tested from Ellicottville (V). 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, ten samples were collected from each system and the 90th percentile value was the second highest value, 121 and 120 ug/l, respectively. The action level for copper was not exceeded at any of the sites tested.  
 2 - The level presented, 2.8 and 6.6 ug/l, respectively, represents the 90th percentile of the ten samples collected from each system. One of the sites in the Town exceeded the action level of 15 ug/l.

**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.

**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).

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

## WHAT DOES THIS INFORMATION MEAN?

As you can see by the table, our system had no violations, but we have learned through our testing that some contaminants have been detected; however, these contaminants were detected below New York State requirements. It should be noted that the action level for lead was exceeded in one of the Town samples collected. 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. The Town of Ellicottville is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. 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 <http://www.epa.gov/safewater/lead>.

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

On March 8, 2018, the Cattaraugus County Health Department conducted sanitary surveys of the Village and Town water systems. A few deficiencies were noted and are listed in the chart below. Please note that the Town of Ellicottville recently received a \$3 million grant in December 2019 which will be used for joint Village/Town water system improvements. The Town of Ellicottville is working with the Cattaraugus County Health Department to ensure that the required corrective actions are being taken.

	Significant Deficiency	Corrective Date
1	South Village well is overdue for professional rehabilitation.	TBD
2	No auxiliary power available at well / water treatment sites.	TBD
3	In the event of a chlorine gas leak, gas cylinders will continue to leak until emergency crews arrive.	TBD
4	Chlorine contact pipe at north well needs to be cleaned.	TBD
5	Upper town reservoir is in need of cleaning and painting.	TBD

## 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).

## 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 and helps 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.

## **CLOSING**

Thank you for allowing us to continue to provide your family with quality drinking water this past 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.