INTRODUCTION
To comply with State regulations, the Village of Cassadaga 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 and we are proud to report that our system did not violate a maximum contaminant level. 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.

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 approximately 635 people through 365 service connections, along with the Lily Dale Assembly and the Cassadaga Job Corps Center. Our water source consists of three groundwater wells. Until October 2016 Well #4 was the primary production well meeting the water demands of the village and Well #1 was a supplement. Starting in October after methane treatment was installed on Well #5, it became the primary well and wells 1 and 4 were supplemental. Chlorine is added to our water before it is pumped into the distribution system. A blended orthophosphate, called Calcquest, is also being added to the water to reduce discolouration (brown water) caused by iron and manganese in the water.

In 2016, the methane treatment system was installed for Well #5 and the village began using this well again in October. The treatment system is working as designed and removing all of the methane, making the water safe for residents to use.

If you have any questions about this report or concerns about your drinking water, please contact Tom Fetter, Water Operator, at 716-595-3844 or the Village Offices at 716-595-3007. 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 in the Community Room on the 1st and 3rd Wednesday of every month at 7:00 PM.

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 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.

The source water assessment has rated our two older wells as having a medium susceptibility to microbes, nitrates, industrial solvents, and other industrial contaminants. There has not been an assessment done on our new well. These ratings are due primarily to the close proximity of permitted discharge facilities (septic systems that discharge wastewater into the environment and are regulated by the state and/or federal government) to the wells and the associated activity in the assessment area. The wells draw from a confined aquifer. A copy of the assessment can be obtained by contacting us as noted above.

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Violation</th>
<th>Date of Sample</th>
<th>Level Detected</th>
<th>Unit Measurement</th>
<th>Regulatory Limit MCL/AL</th>
<th>MCLG</th>
<th>Likely Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium (Well #1)</td>
<td>No</td>
<td>5/5/15</td>
<td>0.053</td>
<td>mg/l</td>
<td>2(MCL)</td>
<td>2</td>
<td>Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits</td>
</tr>
<tr>
<td>Barium (Well #4)</td>
<td>No</td>
<td>5/5/15</td>
<td>0.222</td>
<td>mg/l</td>
<td>2(MCL)</td>
<td>2</td>
<td>Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits</td>
</tr>
<tr>
<td>Barium (Well #5)</td>
<td>No</td>
<td>12/13/16</td>
<td>1.05</td>
<td>mg/l</td>
<td>2(MCL)</td>
<td>2</td>
<td>Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits</td>
</tr>
<tr>
<td>Contaminant</td>
<td>Location</td>
<td>Date Collected</td>
<td>MCL (mg/l)</td>
<td>MCLG (mg/l)</td>
<td>AL (mg/l)</td>
<td>Naturally Occurring?</td>
<td>Notes</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>----------------</td>
<td>------------</td>
<td>-------------</td>
<td>------------</td>
<td>----------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Iron (#1)</td>
<td>No</td>
<td>1/16/07</td>
<td>0.098</td>
<td>0.3</td>
<td>N/A</td>
<td>Naturally occurring.</td>
<td></td>
</tr>
<tr>
<td>Iron (#4)</td>
<td>No</td>
<td>1/16/07</td>
<td>0.18</td>
<td>0.3</td>
<td>N/A</td>
<td>Naturally occurring.</td>
<td></td>
</tr>
<tr>
<td>Manganese (#1)</td>
<td>No</td>
<td>1/16/07</td>
<td>0.02</td>
<td>0.3</td>
<td>N/A</td>
<td>Naturally occurring.</td>
<td></td>
</tr>
<tr>
<td>Manganese (#4)</td>
<td>No</td>
<td>1/16/07</td>
<td>0.10</td>
<td>0.3</td>
<td>N/A</td>
<td>Naturally occurring.</td>
<td></td>
</tr>
<tr>
<td>Nitrate (#1)</td>
<td>No</td>
<td>6/22/16</td>
<td>0.860</td>
<td>10.0</td>
<td>0</td>
<td>Runoff from fertilizer use; Leaching from septic tanks, sewage. Erosion of natural deposits.</td>
<td></td>
</tr>
<tr>
<td>Nitrate (#4)</td>
<td>No</td>
<td>6/22/16</td>
<td>0.264</td>
<td>10.0</td>
<td>0</td>
<td>Runoff from fertilizer use; Leaching from septic tanks, sewage. Erosion of natural deposits.</td>
<td></td>
</tr>
<tr>
<td>Fluoride (#5)</td>
<td>No</td>
<td>12/13/16</td>
<td>0.3</td>
<td>2.2</td>
<td>N/A</td>
<td>Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories.</td>
<td></td>
</tr>
<tr>
<td>Copper (#2)</td>
<td>No</td>
<td>8/25/15-8/26/15</td>
<td>0.44 (Range= 0.0066-0.46)</td>
<td>1.3 (AL)</td>
<td>1.3</td>
<td>Corrosion of household plumbing systems, Erosion of natural deposits;</td>
<td></td>
</tr>
<tr>
<td>Lead (#1)</td>
<td>No</td>
<td>8/25/15-8/26/15</td>
<td>1.5 (Range= ND-5.0)</td>
<td>15 (AL)</td>
<td>0</td>
<td>Corrosion of household plumbing systems; Erosion of natural deposits.</td>
<td></td>
</tr>
<tr>
<td>Sulfate</td>
<td>No</td>
<td>11/28/01</td>
<td>15.9</td>
<td>250 (MCL)</td>
<td>N/A</td>
<td>Naturally occurring.</td>
<td></td>
</tr>
</tbody>
</table>

**VOLATILE ORGANIC CONTAMINANT**

| 1,1,1-Trichloroethene (Well #1) | No | 6/22/16 | 0.64 | 5.0 (MCL) | N/A | Discharge from metal degreasing sites and other factories |

**STAGE 2 DISINFECTION BYPRODUCTS (Bard Rd)**

| Halocarbon | No | 8/28/14 | 2.22 | 60 (MCL) | N/A | By-products of drinking water chlorination. |
| Nitrate    | No | 8/28/14 | 2.73 | 80 (MCL) | N/A | By-products of drinking water chlorination. TTHM's are formed when source water contains large amounts of organic matter. |

**RADIOLOGICALS**

| Radium 228 | No | 5/15/14 | 1.09 | 5 (MCL) | N/A | Erosion of natural deposits. |
| Radium 226 | No | 5/15/14 | 0.66 | 5 (MCL) | N/A | Erosion of natural deposits. |
| Gross Alpha | No | 5/15/14 | 3.07 | 15 (MCL) | 0 | Erosion of natural deposits. |
| Gross Beta | No | 5/15/14 | 1.77 | 8 (MCL) | 0 | Decay of natural deposits and man-made emissions. |

**DISINFECTANTS**

| Chlorine Residual Entry Point #1 | No | Daily (2016) | Avg.=1.43 Range= ND-2.20 | 4 (MCL) | N/A | Water additive used to control microbes |
| Chlorine Residual Entry Point #4 | No | Daily (2016) | Avg.=1.60 Range= 0.47-2.20 | 4 (MCL) | N/A | Water additive used to control microbes |
| Chlorine Residual Entry Point #5 | No | Daily (2016) | Avg.=0.73 Range= 0.05-2.20 | 4 (MCL) | N/A | Water additive used to control microbes |

**OTHER CONTAMINANTS**

| Methane (#4) | N/A | 10/31/14 | Present | N/A | Naturally occurring. Can be associated with oil & gas well drilling. |

**NOTES:**

1. The level presented represents the 90th 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 90th percentile is equal to or greater than 90% of the Lead values detected at your water system. In this case 10 samples were collected at your water systems and the 90th percentile value was calculated to be equal the second highest result value which was 2.0ug/l. The action level for Lead was not exceeded at any of the sites tested.

2. The level presented represents the 90th percentile of the 10 samples collected. Again the 90th percentile value was calculated to be equal the second highest result value for Copper which was 0.44mg/l. The action level for Copper was not exceeded at any of the sites tested.

3. The NYSDOH considers 50 pCi/l to be the level of concern for beta particles.

4. Because methane gas quickly dissipates when it hits the air, it is very difficult to measure exactly how much is in the water; therefore it is being reported as present or absent.

**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).

**Picoctures 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. Lead and copper were detected within the system but of the 10 samples collected none were found exceeding the action levels. We are however 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 Village of Cassadaga 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?
During 2016, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements. As stated prior, the methane treatment system was installed for Well #5 and the village began using this well again in October 2016. The treatment system is working as designed and removing all of the methane, making the water safe for residents to use. The presence of methane will be closely monitored to ensure the treatment is working properly.

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 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.

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.

CLOSING
Thank you for allowing us to continue to provide your family with quality drinking water this year. Providing quality water is a challenge to assure that it is meeting the required standards at a reasonable cost. We faced a huge challenge when methane was discovered in our new well in October of 2015. No one was more upset or discouraged than our Water Operator, the Mayor, Village Board and Clerk. Not only did we have to shut down our new well, we had to eliminate the methane and find a way to pay for it.

We hired Chatfield Engineers to design a Methane Removal System in the beginning of 2016 and the new Methane Removal System was installed by H&K Services in the summer and Well #5 was put back into service in October of 2016. The total cost of the Methane System was $254,852.

Clerk Treasurer Astry researched funding opportunities to pay for the Methane Removal System to prevent passing the cost onto our water customers. We found out that New York State Environmental Facilities had grants that we were eligible for. Not only were we eligible for a zero percent loan for our Methane Removal System we were also eligible to refinance our entire Capital Water Project of $5,528,360.68 at 2.5% with USDA Rural Development at 0% with Environmental Facilities. Two separate applications were submitted on June 7, 2016 by Astry. After spending hundreds of hours on the grants and follow up work we were awarded both grants at zero percent. This saved our water customers over a million and a half on interest on the balance of our 35 year loan.

We are planning on replacing the waterline on Mill Street this summer and plans will be going out to bid very shortly. We would also like to replace waterlines on both North and South Main Streets in the next year. We also will continue replacing defective water meters as needed.

The Water Rates will not have to be raised because of the grants. The rate structure will continue with a $95.00 debt service per dwelling unit and a water rate usage of $4.00 per thousand gallons. Partial payments will be accepted by the Village Clerk with total to be paid within 60 days; henceforth after that date a Shut Off notice will be issued. Any unpaid water bills in arrears over nine months as of April 1st shall be included in the annual tax levy. Water billings go out on June 1st and December 1st.

Please call our office if you have any questions at 716-595-3007 or Tom Fetter at 716-595-3844. Trustees Bill Astry and Amanda Kalfas have been appointed as Trustees in charge of water this year. Both Tom Fetter and Dustin Slavey have their Class C Water License to serve as operators of the water system.

This institution is an equal opportunity provider, and employer.
CASSADAGA NEWS
SAVE THAT DATE

5K RUN-CLASS OF 2019, June 2 at 6PM

CASSADAGA LAWN SALES- June 17, 8 AM-4PM

JOB CORP-Youth to Youth Peace Parade June 11, 9AM

KAYAKING WITH EVERGREEN OUTFITTERS-SPONSORED BY CBC- June 19, July 17, Aug. 14 DEC Boat Launch 6:20 PM

STTC TRIATHOLON CASSADAGA BEACH at 5:45 on June 21, July 19, Aug. 16, Sept. 13. Contact: 914-466-9124.

CASSADAGA BEACH OPENS FOR SWIMMING June 26-Aug. 18. Swim Lessons at 11 AM- Open Swim 12 until 6:00 PM daily.

STRAWBERRY SOCIAL-CASSADAGA CONCERT BAND at Beach on June 28 at 630 PM. Sponsored by CBC.

LEW MEAD MEMORIAL YOUTH FISHING TOURNAMENT- June 24, 7AM - 11:30 AM DEC Boat Launch. Sponsored by CLA, 595-3950

FLOATING STAGE-July 2, Old Dog Blue Grass at 5PM-7PM, July 23, Big Tone (Blues and Classic Music) 5PM-7PM. July 30-Worship on the Water 10:30 AM-Park United Methodist Church. Aug. 27, Kokomo Time Band 5PM-7PM

FLARES Around the Lake, July 4th, 9:30 PM.

COMMUNITY BARN DANCE at Red House, Sunday, August 6th. 7PM.

CASSADAGA COMMUNITY PICNIC-BONFIRE BEACH, Aug. 18, 6PM

LABOR DAY FESTIVAL; Sept. 2, Craft Show 11AM-4PM at Ames Common. Parade at 4PM, Ducky Derby 5PM -Inlet Sept. 3- Bicycle Run at 1PM at Beach, Boat Parade at 3:30 Marauder Steel Band at 4PM at Beach. Light up the Lake at 9:30 PM.

PADDLES ACROSS THE LAKES Sept. 9, Meet at the DEC Launch at 10 AM, refreshments to follow. Call 763-2266 for rentals,

Town Assessor: Deanna Wheeler 595-3192

Dog Control Officer: Dennis Pastor 962-5160

Zoning Officer: Sam Mancuso 673-5678

Zoning Enforcement: Jim DeJoe 672-2616


Deputy Clerk: Bonita Mazzone Office: 595-3007

Mayor: Mary Jo Bauer 785-3007 mjcarl48@gmail.com.

Deputy Mayor: Bill Astry 679-5775 billastry@hotmail.com

Trustee: Amanda Kalfas 467-3987 kalfasag88@gmail.com

Trustee: Theresa Seibert 595-2580 seibert@fredonia.edu

Trustee: Cynthia Flaherty 665-8855 cynthiamflaherty@gmail.com

Public Works Supt. Tom Fetter DPW: 595-3844 Cell: 785-2475 dpw.cassadaga@yahoo.com

Look for us on facebook or on web cassadaganewyork.org

villcass@netsync.net