

## Annual Drinking Water Quality Report for 2007

Village of Clayton  
P.O. Box 250, Clayton, NY 13624  
(Public Water Supply ID#2202335)

### INTRODUCTION

To comply with State regulations, the Village of Clayton, 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 has never violated a maximum contaminant level or any other water quality statement. 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 Mr. Ralph Downey, Water Plant Supervisor, at (315) 686-5552. 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> and 4<sup>th</sup> Monday of each month at 6:30 pm at the Municipal Complex on Mary St.

### 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.

Our water system serves a population of 1821 through 976 metered service connections. Our water source is the St. Lawrence River. The intake extends 460 feet into the main shipping channel at a depth of 50 ft. The water is conveyed to the Water Treatment Plant by three low-lift pumps to the three R.P.Adams Diatomaceous Earth Filters, followed by disinfection by injection of gaseous chlorine. After the proper amount of detention time the water is pumped into the distribution system to our customers. Any water not consumed by our customers is then stored in a 1,000,000 gallon storage tower.

### Source Water Assessment Summary

The Great Lakes watershed is exceptionally large and too big for a detailed evaluation in the SWAP. General drinking water concerns for public water supplies which use these sources include: storm generated turbidity, wastewater, toxic sediments, shipping related spills, and problems associated with exotic species (e.g. zebra mussels- intake clogging and taste and odor problems). The summary below is based on the analysis of the contaminant inventory compiled for the drainage area deemed most likely to impact drinking water quality at the PWS intake.

The assessment found a moderate susceptibility to contamination for this source of drinking water. The amount of agricultural lands in the assessment area results in medium potential for microbial and DBP precursors contamination. There is also a moderate density of sanitary wastewater discharges which results in elevated susceptibility for nearly all contaminant categories. There is also noteworthy contamination susceptibility associated with other discrete contaminant sources, and these facility types include: mines and landfills. A copy of the assessment can be obtained by contacting the supplier of water.

### 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, 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 NYSDOH Watertown-District Office (315) 785-2277.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Nitrate as N	No	7/06	297	Ug/l	10,000	10,000	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Turbidity (1)	No	Daily	(.07 / .25) (.00 - .25)	NTU	N/A	TT=1.0	Soil Runoff.
Barium	No	9/07	22	Ug/l	2000	2000	Discharge from drilling waste, Discharge from mining waste naturally occurring
Copper	No	9/07	76	Ug/l	1300	AL=1300	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.
Sodium	No	9/07	13	Mg/l	N/A	(se health effects)	Naturally occurring; Road salt; Water softeners; Animal waste.
Disinfection By-Products							
Total Trihalomethanes (TTHM) (2)	No	Quarterly (Avg.)	53,60,38,40 52.5	Ug/l	N/A	100	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 (HAA5) (2)	No	Quarterly (Avg.)	15,20,27,58 30	Ug/l	N/A	80	By-product of drinking water chlorination needed to kill harmful organisms.
Chlorine Residual	No	Daily	(1.7-2.9) (1.6-2.9)	Ug/l	N/A	4	By-product of drinking water chlorination needed to kill harmful organisms.

**Notes:**

(1) – Turbidity is a measure of the cloudiness of the water. We test it because it is a good indicator of the effectiveness of our filtration system. Our highest single turbidity measurement for the year occurred on April 16, 2007 (.25 NTU). State regulation requires that turbidity must always be below 5 NTU. The regulations require that 95% of the turbidity samples collected have measurements below 0.5 NTU. Although March 2007 was the month when we had the fewest measurements meeting the treatment technique for turbidity, the levels recorded were within the acceptable range allowed and did not constitute a treatment technique violation.

(2) – This level represents the annual quarterly average calculated from data collected.

**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 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.

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

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

**Nephelometric Turbidity Unit (NTU):** A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**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).

**Nanograms per liter (ng/l):** Corresponds to one part of liquid to one trillion parts of liquid (parts per trillion - ppt).

**Picograms per liter (pg/l):** Corresponds to one part per of liquid to one quadrillion parts of liquid (parts per quadrillion – ppq).

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

**Millirems per year (mrem/yr):** A measure of radiation absorbed by the body.

**Million Fibers per Liter (MFL):** A measure of the presence of asbestos fibers longer than 10 micrometers.

### **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 2007, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

### **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).

### **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. 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 at (315) 686-5552.**

### ***NOTICE TO ALL WATER and/or SEWER CUSTOMERS***

Statements will be mailed to the property owner three (3) times a year:

**MARCH 1** (covering October 15 through February 15) - **PAYMENT DUE APRIL 5<sup>th</sup>**

**JULY 1** (covering February 15 through June 15) - **PAYMENT DUE AUGUST 5<sup>th</sup>**

**NOVEMBER 1** (covering June 15 through October 15) - **PAYMENT DUE DECEMBER 5<sup>th</sup>**

If payment is not received by the Due Date, a 10% penalty will be added to your bill.

Accounts not paid in a timely fashion are subject to termination.

For further information, please contact the Village Clerk's Office

**WATER-SEWER RATES**  
(Effective with 03/01/2008 Billing)

WATER      \$60.00 for up to 2,000 gallons (minimum charge)  
               \$6.00/1,000 for next 98,000 gallons  
               \$2.70/1,000 for above 100,000 gallons

SEWER      \$105.00 for up to 1,000 gallons (minimum charge)  
               \$3.50/1,000 for additional gallons

OTHER      \$25.00 ON (or) OFF fee  
               \$50.00 for ON and OFF  
               \$25.00 Out-of-Village Water (unit charge)  
               \$50.00 ON (or) OFF fee/Out-of-Village  
               \$75.00 ON and OFF fee/Out-of-Village

**SEASONAL CUSTOMERS:**  
 IN ORDER TO BETTER SERVE YOU, PLEASE TELEPHONE  
 THE CLERK'S OFFICE (315-686-5552)  
AT LEAST 48 HOURS IN ADVANCE  
 OF THE DATE YOU WISH TO HAVE YOUR SERVICE  
 TURNED "ON" OR "OFF"  
 ☺ THANK YOU!! ☺

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2008-2009 Village Property Tax Rate (June 1, 2008)  
 \$9.870756/\$1,000

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Village Clerk's Office:  
 Phone: (315) 686-5552  
 Fax: (315) 686-2132  
 E-mail: [vclayton@gisco.net](mailto:vclayton@gisco.net) Website: [www.villageofclayton.org](http://www.villageofclayton.org)

Office Hours: 8:00 a.m. - 4:00 p.m.  
 Monday through Friday



**VILLAGE OF CLAYTON**

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