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*Annual Drinking Water Quality Report for 2013  
Beacon Hills Water District  
Fishkill, New York 12524  
Public Water Supply ID# 1310806*

## **INTRODUCTION**

To comply with State regulations, the Beacon Hills Water District is issuing an annual 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 **CAMO Pollution Control, Inc.** at (845) 463-7310. We want you to be informed about your drinking water. The time and place of regularly scheduled town board meetings may be obtained from Darlene Bellis, Town clerk, at (845) 831-7800.

## **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 999 residents through 288 service connections. Our water is purchased from the Village of Fishkill. Treatment by the Village consists of disinfection with Sodium Hypochlorite. The quality of water from the Village of Fishkill meets all satisfactory standards from the New York State Department of Health. A copy of the 2013 Annual Water Quality Report issued by the Village to all village residents is attached. During 2013 our system did not experience any restrictions of our water source. Many of the water mains are substandard and cannot provide water to fight fires. However the distribution system was flushed to help improve water quality.

**WE ASK THAT ALL OF OUR RESIDENTS BE VIGILANT IN REGARD TO SUSPICIOUS ACTIVITY IN THE AREA OF OUR WATER TREATMENT PLANTS.**

**ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

As the State regulations require, we routinely test your drinking water for numerous contaminants. The Village of Fishkill 2013 Annual Water Quality Report (attached) contains all water quality information. Additionally, the Town of Fishkill monitors water quality and chlorine residuals on a daily basis. Periodically, testing is also done for Lead and Copper. 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 Dutchess County Health Department at (845) 486-3404.

Contaminant	Violation	Date of Sample	Level Detected (Range)	Unit Measurement	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Copper			0.0627 (0.0341-0.0650)	mg/l	AL = 1.3	Corrosion of household plumbing, erosion of natural deposits
See Note 1	No	06/11				
Lead			0.0006 (ND-0.0012)	mg/l	AL = 0.015	Corrosion of household plumbing, erosion of natural deposits
See Note 2	No	06/11				
Total Trihalomethanes	No	07/13	4.00	ug/l	MCL = 80	By-product of drinking water chlorination
Haloacetic Acids	No	07/13	1.35	ug/l	MCL = 60	By-product of drinking water chlorination

**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 copper values detected at your water system. The action level for copper was not exceeded at any of the sites tested.

Notes: (Continued)

2 – The level presented represents the 90th percentile of the 10 samples collected. The action level for lead was not exceeded at any of the 10 sites tested.

#### 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.

**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).

## 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.

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. **CAMO Pollution Control, Inc.** 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 2013, 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 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 **CAMO Pollution Control, Inc.** at **(845) 463-7310** if you have questions.

**Annual Drinking Water Quality Report for 2013**  
**Village of Fishkill**  
**1095 Main Street, Fishkill, New York 12524**  
**(Public Water Supply ID# 1302765)**

**INTRODUCTION**

To comply with State regulations the Village of Fishkill 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. Once again 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. 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 Dave Morrison, Water Superintendent, 845-896-8070. 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 held the third (3rd) Monday of every month at 7:00 PM. The meeting place is a Van Wyck Hall located at 1095 Main Street in Fishkill.

**WHERE DOES OUR WATER COME FROM?**

Generally, 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, naturally occurring 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, herbicides, organic chemical contaminants, and radioactive contaminants. In order to ensure that tap water is safe to drink, New York State and the USEPA prescribe regulations which limit the concentration 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 source consists of eight groundwater wells located on twelve acres of land, which are located in the Town of Fishkill. The wells range in depth from 84 feet to 240 feet. The water is disinfected with sodium hypochlorite prior to distribution to the system.

The NYS Dept. of Health has completed a source water assessment for this system, based on available information. Possible and actual threats to this 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 sections "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected, if any. The source water assessments provide resource managers with additional information for protecting source waters into the future.

The source water assessment has rated our water source as having an elevated susceptibility to microbial and nitrate contamination. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and the related activities in the assessment area. In addition, the wells draw from fractured bedrock and the overlying sand & gravel soils may not provide adequate protection from potential contamination.

The county and state health departments will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, and planning and education programs. A copy of the assessment can be obtained by contacting us, as noted below.

**FACTS AND FIGURES**

Our water system serves 1,197 village service connections combined with the out of Village users for an approximate total population of 11,289 people. The total amount of water produced in 2013 was 535,600,800 gallons. The daily average of water treated and pumped into the distribution system was 1,467,399 gallons per day. Our highest single day for a 24 hr period was 2,353,000 gallons on May 17,2013.

The Water Rates for 2013 were as follows:

Village Residents:	\$12.50 for 1 <sup>st</sup> 1,000 cu. Ft.* \$ 8.13 for every 1,000 cu. Ft. After
Out of Village Residents:	\$25.00 for 1 <sup>st</sup> 1,000 cu. Ft. \$16.25 for every 1,000 cu. Ft.

- 1 cu. Ft = 7.48 gallons.

**ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

As the State regulations require, we routinely test your drinking water for numerous constituents. These constituents include: total coliform, inorganic compounds, total trihalomethanes, haloacetic acids, radionuclides, nitrates, nitrites, lead, copper, volatile organic compounds (VOC's), and synthetic organic compounds (SOC's). The table presented below depicts which compounds were detected in your drinking water. The State has us test for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data listed in this report, though representative and within in the requirements of the NYS Sanitary Code, is more than one year old.

It should be noted that all drinking water, including bottled drinking water, contains 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 Dutchess County Health Department at (845-486-3400).

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.

**Table of Detected Contaminants**

<b>Disinfection By-Products</b>							
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
TTHM (Total Trihalomethanes)	N	9/25/13	3.24	ppb (Parts per billion)	0	MCL = 80.0	By-product of drinking water chlorination
Haloacetic Acids (total)	N	9/25/13	<1.0	ppb	0	MCL = 60.0	By-product of drinking water chlorination

Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Total Coliform	Yes	5/22/13	2 positive samples	N/A	N/A	MCL=2 or more positive samples in 1 month	Naturally present in the environment

Systems that collect fewer than 40 total coliform samples per month, must report the highest number of positive samples collected in any one month. If 2 or more samples are positive for total coliforms a MCL violation has occurred. Follow up sampling was performed, public notification occurred; all follow up sample results were absent of total coliform

Inorganic Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, OR AL)	Likely Source of Contamination
Mercury	N	12/18/13	0.2	ppb	2	2	Erosion of natural deposits; discharge from refineries
Barium	N	12/18/13	24.7	ppb	2000	2000	Discharge of drilling waste; discharge from metal refineries, erosion of natural deposits.
Cadmium	N	12/18/13	0.5	ppb	5	5	Corrosion of galvanized pipes, erosion of natural deposits; discharge from metal refineries, run off from waste batteries & paints
Nitrate	N	12/18/13	0.36	mg/L	10	10	Fertilizers runoff. Septic tank leachate.
Chromium	N	12/18/13	<2.0	ppb	100	100	Erosion of natural deposits; discharge from steel & pulp mills.
Nickel	N	12/18/13	1.1	ppb	N/A	100	Discharge from steel metal factories
Sodium (2)	N	3/21/13	29.0	ppm	N/A	No Limit	Naturally occurring and road salt contamination.
Selenium	N	12/18/13	3.0	ppb	50	50	Discharge from metal & petroleum refineries; erosion from natural deposits, discharges from mines
Chloride	N	3/21/13	61.1	ppm	N/A	250	Naturally occurring or indicative of road salt contamination
Cyanide	N	12/18/13	100	ppb	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	N	12/18/13	<0.1	mg/L	N/A	2.2	Erosion of natural deposits; discharge from fertilizer or aluminum factories
Total Dissolved Solids Well #11	N	11/6/13	326	mg/L	N/A	N/A	
Alkalinity Well #11	N	11/6/13	130	mg/L	N/A	N/A	
Hardness Well #11	N	11/6/13	136	mg/L	N/A	N/A	Naturally occurring /mineral deposits
Sulfate Well #11	N	11/6/13	22.2	mg/L	N/A	250	Naturally occurring
Iron Well #11	N	11/6/13	0.015	mg/L	N/A	0.3	Naturally occurring

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, OR AL)	Likely Source of Contamination
Magnesium Well #11	N	11/6/13	10.9	mg/L	N/A	N/A	Naturally occurring / mineral deposit
Manganese Well #11	N	11/6/13	0.060	mg/L	N/A	0.3	Naturally occurring; Indicative of landfill contamination
Copper Well #11	N	11/6/13	0.0018	mg/L	1.3	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives
Lead (1)	N	7/27/10 7/28/10 9/22/10	<0.5 – 12.6 Range 1.7 Avg. 90 <sup>th</sup> Percentile 3.3	ppb	0	15	Corrosion of household plumbing systems; Erosion of natural deposits;
Copper (1)	N	7/27/10 7/28/10 9/22/10	.004 – 0.92 Range .042 Avg. 90 <sup>th</sup> Percentile .065	ppm	0	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.

**Notes:**

1 – The level presented represents the 90<sup>th</sup> percentile of the 20 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 90<sup>th</sup> percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, 20 samples were collected at your water system and the 90<sup>th</sup> percentile value was 3.0 ppb the highest value was 8.0 ppb, the second highest was 5.0 ppb.

**Advisory:** Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. 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 higher than at other homes in the community as a result of materials used in your home’s plumbing. The Village of Fishkill 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 the 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>.

2 – Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

**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.

**Action Level (AL):** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

**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 that are longer than 10 micrometers.

## WHAT DOES THIS INFORMATION MEAN?

As you can see by the table, our system had a violation for Total Coliform Bacteria being present on 5/22/13. At that time, a public notification was released and we chlorinated and flushed the pipes in the distribution system to make sure bacteria was eliminated. After further testing on 5/23/13 and 5/24/13, Total Coliform Bacteria was not detected and the public notification was lifted.

Health Effects for Total Coliform Bacteria: Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

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

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During 2013, we did not complete all monitoring or testing for Lead and Copper. This was reported to the Dutchess County Health Department and based on the relatively low results from the 2010 testing the policy is to go back to yearly sampling. The next samples will be taken in June of 2014.

## 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, 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.
- ♦ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, then check the meter after 15 minutes, if it moved, you have a leak.

## SYSTEM IMPROVEMENTS

Due to approval delays the water main improvements for Rt-9 south of Clove Rd. was moved to the summer of 2014 when the Village will be replacing the 10" cast iron water main from Clove Rd south to the Putnam Co. line; this 100-year-old section of main has been a source for multiple water main breaks in the past; with this replacement the number of dirty water issues should be greatly reduced as will water loss volumes. Public bidding is scheduled for spring 2014. A new 2 MG storage tank is continuing through the design and planning phase, this improvement will occur once the new main has been installed on Rt-9 south of the water supply. Once again the Village has performed its semiannual flushing during day light hours reducing over time costs and providing for a more efficient system wide flushing. Dirty water issues during 2013 were very minor and related to localized water main repairs.

#### **CLOSING**

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

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Blodgett Water District  
Fishkill, New York 12524  
Public Water Supply ID# 1330222*

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Our water system serves ten commercial accounts in the Town of Fishkill. Our water is purchased from the Village of Fishkill. Treatment by the Village consists of disinfection with Sodium Hypochlorite. The quality of water from the Village of Fishkill meets all satisfactory standards from the New York State Department of Health. The Annual Water Quality Report for 2013 issued by the Village of Fishkill to all residents is attached.

**WE ASK THAT ALL OF OUR RESIDENTS BE VIGILANT IN REGARD  
TO SUSPICIOUS ACTIVITY IN THE AREA OF OUR WATER  
TREATMENT PLANTS.**

**ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

As the State regulations require, we routinely test your drinking water for numerous contaminants, including coliform. None of the compounds we analyzed for were detected in your drinking water. Blodgett sampling is now part of the Village of Fishkill sampling plan. The Village of Fishkill Annual Water Quality Report for 2013 (attached) contains all water quality information.

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 Dutchess County Health Department at (845) 486-3404.

<b>Table of Detected Contaminants</b>						
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Range)	Unit Measurement	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
<b>Inorganics</b>						
Copper See Note 1	No	11/2010	0.0994 (0.0247-0.148)	mg/l	AL=1.3	Corrosion of household plumbing, erosion of natural deposits
Lead See Note 2	No	11/2010	<0.0005 (ND-0.0022)	mg/l	AL=0.015	Corrosion of household plumbing, erosion of natural deposits

**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 copper values detected at your water system. The action level for copper was not exceeded at any of the sites tested.

2 – The level presented represents the 90th percentile of the 10 samples collected. The action level for lead was not exceeded at any of the 10 sites tested.

**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.

## Definitions: (Continued)

**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).

## 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.

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. **CAMO Pollution Control, Inc.** 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 2013, 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 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 CAMO Pollution Control, Inc. at (845) 463-7310 if you have questions.

**Annual Drinking Water Quality Report for 2013**  
**Village of Fishkill**  
**1095 Main Street, Fishkill, New York 12524**  
**(Public Water Supply ID# 1302765)**

**INTRODUCTION**

To comply with State regulations the Village of Fishkill 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. Once again 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. 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 Dave Morrison, Water Superintendent, 845-896-8070. 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 held the third (3rd) Monday of every month at 7:00 PM. The meeting place is a Van Wyck Hall located at 1095 Main Street in Fishkill.

**WHERE DOES OUR WATER COME FROM?**

Generally, 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, naturally occurring 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, herbicides, organic chemical contaminants, and radioactive contaminants. In order to ensure that tap water is safe to drink, New York State and the USEPA prescribe regulations which limit the concentration 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 source consists of eight groundwater wells located on twelve acres of land, which are located in the Town of Fishkill. The wells range in depth from 84 feet to 240 feet. The water is disinfected with sodium hypochlorite prior to distribution to the system.

The NYS Dept. of Health has completed a source water assessment for this system, based on available information. Possible and actual threats to this 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 sections "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected, if any. The source water assessments provide resource managers with additional information for protecting source waters into the future.

The source water assessment has rated our water source as having an elevated susceptibility to microbial and nitrate contamination. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and the related activities in the assessment area. In addition, the wells draw from fractured bedrock and the overlying sand & gravel soils may not provide adequate protection from potential contamination.

The county and state health departments will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, and planning and education programs. A copy of the assessment can be obtained by contacting us, as noted below.

**FACTS AND FIGURES**

Our water system serves 1,197 village service connections combined with the out of Village users for an approximate total population of 11,289 people. The total amount of water produced in 2013 was 535,600,800 gallons. The daily average of water treated and pumped into the distribution system was 1,467,399 gallons per day. Our highest single day for a 24 hr period was 2,353,000 gallons on May 17,2013.

The Water Rates for 2013 were as follows:

<b>Village Residents:</b>	\$12.50 for 1 <sup>st</sup> 1,000 cu. Ft.* \$ 8.13 for every 1,000 cu. Ft. After
<b>Out of Village Residents:</b>	\$25.00 for 1 <sup>st</sup> 1,000 cu. Ft. \$16.25 for every 1,000 cu. Ft.

- 1 cu. Ft = 7.48 gallons.

**ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

As the State regulations require, we routinely test your drinking water for numerous constituents. These constituents include: total coliform, inorganic compounds, total trihalomethanes, haloacetic acids, radionuclides, nitrates, nitrites, lead, copper, volatile organic compounds (VOC's), and synthetic organic compounds (SOC's). The table presented below depicts which compounds were detected in your drinking water. The State has us test for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data listed in this report, though representative and within in the requirements of the NYS Sanitary Code, is more than one year old.

It should be noted that all drinking water, including bottled drinking water, contains 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 Dutchess County Health Department at (845-486-3400).

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.

**Table of Detected Contaminants**

<b>Disinfection By-Products</b>							
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
TTHM (Total Trihalomethanes)	N	9/25/13	3.24	ppb (Parts per billion)	0	MCL = 80.0	By-product of drinking water chlorination
Haloacetic Acids (total)	N	9/25/13	<1.0	ppb	0	MCL = 60.0	By-product of drinking water chlorination

Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Total Coliform	Yes	5/22/13	2 positive samples	N/A	N/A	MCL=2 or more positive samples in 1 month	Naturally present in the environment

Systems that collect fewer than 40 total coliform samples per month, must report the highest number of positive samples collected in any one month. If 2 or more samples are positive for total coliforms a MCL violation has occurred. Follow up sampling was performed, public notification occurred; all follow up sample results were absent of total coliform

Inorganic Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, OR AL)	Likely Source of Contamination
Mercury	N	12/18/13	0.2	ppb	2	2	Erosion of natural deposits; discharge from refineries
Barium	N	12/18/13	24.7	ppb	2000	2000	Discharge of drilling waste; discharge from metal refineries, erosion of natural deposits.
Cadmium	N	12/18/13	0.5	ppb	5	5	Corrosion of galvanized pipes, erosion of natural deposits; discharge from metal refineries, run off from waste batteries & paints
Nitrate	N	12/18/13	0.36	mg/L	10	10	Fertilizers runoff. Septic tank leachate.
Chromium	N	12/18/13	<2.0	ppb	100	100	Erosion of natural deposits; discharge from steel & pulp mills.
Nickel	N	12/18/13	1.1	ppb	N/A	100	Discharge from steel metal factories
Sodium (2)	N	3/21/13	29.0	ppm	N/A	No Limit	Naturally occurring and road salt contamination.
Selenium	N	12/18/13	3.0	ppb	50	50	Discharge from metal & petroleum refineries; erosion from natural deposits, discharges from mines
Chloride	N	3/21/13	61.1	ppm	N/A	250	Naturally occurring or indicative of road salt contamination
Cyanide	N	12/18/13	100	ppb	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	N	12/18/13	<0.1	mg/L	N/A	2.2	Erosion of natural deposits; discharge from fertilizer or aluminum factories
Total Dissolved Solids Well #11	N	11/6/13	326	mg/L	N/A	N/A	
Alkalinity Well #11	N	11/6/13	130	mg/L	N/A	N/A	
Hardness Well #11	N	11/6/13	136	mg/L	N/A	N/A	Naturally occurring /mineral deposits
Sulfate Well #11	N	11/6/13	22.2	mg/L	N/A	250	Naturally occurring
Iron Well #11	N	11/6/13	0.015	mg/L	N/A	0.3	Naturally occurring

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, OR AL)	Likely Source of Contamination
Magnesium Well #11	N	11/6/13	10.9	mg/L	N/A	N/A	Naturally occurring / mineral deposit
Manganese Well #11	N	11/6/13	0.060	mg/L	N/A	0.3	Naturally occurring; Indicative of landfill contamination
Copper Well #11	N	11/6/13	0.0018	mg/L	1.3	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives
Lead (1)	N	7/27/10 7/28/10 9/22/10	<0.5 – 12.6 Range 1.7 Avg. 90 <sup>th</sup> Percentile 3.3	ppb	0	15	Corrosion of household plumbing systems; Erosion of natural deposits;
Copper (1)	N	7/27/10 7/28/10 9/22/10	.004 – 0.92 Range .042 Avg. 90 <sup>th</sup> Percentile .065	ppm	0	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.

**Notes:**

1 – The level presented represents the 90<sup>th</sup> percentile of the 20 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 90<sup>th</sup> percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, 20 samples were collected at your water system and the 90<sup>th</sup> percentile value was 3.0 ppb the highest value was 8.0 ppb, the second highest was 5.0 ppb.

**Advisory:** Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. 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 higher than at other homes in the community as a result of materials used in your home’s plumbing. The Village of Fishkill 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 the 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>.

2 – Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

**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.

**Action Level (AL):** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

**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 that are longer than 10 micrometers.

### **WHAT DOES THIS INFORMATION MEAN?**

As you can see by the table, our system had a violation for Total Coliform Bacteria being present on 5/22/13. At that time, a public notification was released and we chlorinated and flushed the pipes in the distribution system to make sure bacteria was eliminated. After further testing on 5/23/13 and 5/24/13, Total Coliform Bacteria was not detected and the public notification was lifted.

Health Effects for Total Coliform Bacteria: Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

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

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During 2013, we did not complete all monitoring or testing for Lead and Copper. This was reported to the Dutchess County Health Department and based on the relatively low results from the 2010 testing the policy is to go back to yearly sampling. The next samples will be taken in June of 2014.

### **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, 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.
- ◆ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, then check the meter after 15 minutes, if it moved, you have a leak.

### **SYSTEM IMPROVEMENTS**

Due to approval delays the water main improvements for Rt-9 south of Clove Rd. was moved to the summer of 2014 when the Village will be replacing the 10" cast iron water main from Clove Rd south to the Putnam Co. line; this 100-year-old section of main has been a source for multiple water main breaks in the past; with this replacement the number of dirty water issues should be greatly reduced as will water loss volumes. Public bidding is scheduled for spring 2014. A new 2 MG storage tank is continuing through the design and planning phase, this improvement will occur once the new main has been installed on Rt-9 south of the water supply. Once again the Village has performed its semiannual flushing during day light hours reducing over time costs and providing for a more efficient system wide flushing. Dirty water issues during 2013 were very minor and related to localized water main repairs.

#### **CLOSING**

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

Robert P. LaColla  
Town of Fishkill Supervisor  
(845) 831-7800 \* 3309  
(845) 831-1706 fax  
e-mail: blacolla@fishkill-ny.gov



Fishkill Town Hall  
807 Route 52  
Fishkill, NY 12524-3110  
website: [www.fishkill-ny.gov](http://www.fishkill-ny.gov)

*Annual Drinking Water Quality Report for 2013  
Brinkerhoff Water District  
Fishkill, New York 12524  
Public Water Supply ID# NY1302766*

## **INTRODUCTION**

To comply with State regulations, the Brinkerhoff Water District is issuing an annual 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 CAMO Pollution Control, Inc. at (845) 463-7310. We want you to be informed about your drinking water. The time and place of regularly scheduled Town Board meetings may be obtained from Darlene Bellis, Town Clerk, at (845) 831-7800.

## **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 3,788 customers through 950 service connections. Our water source is groundwater drawn from three gravel wells. The three wells have submersible pumps that pump to a pneumatic tank in order to maintain system pressure. The overall quality of this source during 2013 was excellent and in compliance with standards set by the New York State Department of Health. The supply of water fully met all demands in 2013.

The treatment of our water consists of disinfection with chlorine to destroy microorganisms. Well #3, our biggest well and the reserve well, has been deemed to be under the influent of surface water. Treatment was to be installed by 2011. The New York State Health Department considers this a violation of 5-1.30 and 5-1.9 of Part 5 New York State Sanitary Code. The Town Board has authorized the work, which is currently being designed and will be completed in the future. It should be noted that well 3 was exercised and in a "ready" state in case of an emergency, but was not utilized during 2013.

## **SOURCE WATER ASSESSMENT**

The New York State Department of Health has completed a source water assessment for this system, based on available information. Possible and actual threats to this 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, infected. See the section "What's In My Water?" for a list of the contaminants that have been detected, if any. The source water assessments provide resource managers with additional information for protecting source waters into the future.

The source water assessment has rated our water as having an elevated susceptibility to microbials, nitrates, industrial solvents, and other industrial contamination. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the State or Federal government) and to residential land use and related activities in the assessment area. In addition, the wells draw from fractured bedrock, and the overlying soils may not provide adequate protection from potential contamination. While the source water assessment has rated 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.

The County and State health departments will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, planning, and education programs. A copy of the assessment can be obtained by contacting us at (845) 463-7310.

## **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, haloacetic acids, radiological 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 Dutchess County Health Department at (845) 486-3404.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
<b>Inorganics</b>							
Arsenic	No	11/2013	0.5	ppb	NA	10	Erosion of natural deposits; runoff from glass and electronics production wastes
Barium	No	11/2013	0.0210	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chloride	No	11/2013	120	ppm	NA	250	Naturally occurring or indicative of road salt contamination
Copper See footnote 2	No	07/2011	0.0789	ppm	1.3	AL = 1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead See footnote 2	No	07/2011	2.9	ppb	0	AL = 15	Corrosion of household plumbing systems; erosion of natural deposits
Nickel	No	11/2013	0.0016	ppm	NA	NA	Naturally occurring
Nitrate	No	11/2013	1.96	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Odor	No	11/2012	1	unit	NA	3	Organic or inorganic pollutants originating from municipal & industrial discharges; naturally occurring
Sodium See footnote 1	No	11/2013	69.5	ppm	NA	See footnote 1	Naturally occurring; road salt; water softeners; animal waste
Sulfate	No	11/2013	28.1	ppm	NA	250	Naturally occurring
<b>Disinfection Byproducts</b>							
Haloacetic Acid	No	07/2013	0.82	ppb	NA	MCL = 60	By-product of drinking water chlorination
Total Trihalomethanes	No	07/2013	1.69	ppb	NA	MCL = 80	By-product of drinking water chlorination

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Notes:

1 – Water containing more than 20 ppm of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 ppm of sodium should not be used for drinking by people on moderately restricted sodium diets.

2 – The levels reported for lead and copper represent the 90<sup>th</sup> percentile of the total number of 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 90<sup>th</sup> percentile is equal to or greater than 90% of the lead and copper values detected at your water system.

**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.

**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).

## 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.

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. **CAMO Pollution Control, Inc.** 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 2013, 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 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 **CAMO Pollution Control, Inc. at (845) 463-7310** if you have questions.

**Annual Drinking Water Quality Report for 2013**  
**Village of Fishkill**  
**1095 Main Street, Fishkill, New York 12524**  
**(Public Water Supply ID# 1302765)**

**INTRODUCTION**

To comply with State regulations the Village of Fishkill 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. Once again 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. 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 Dave Morrison, Water Superintendent, 845-896-8070. 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 held the third (3rd) Monday of every month at 7:00 PM. The meeting place is a Van Wyck Hall located at 1095 Main Street in Fishkill.

**WHERE DOES OUR WATER COME FROM?**

Generally, 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, naturally occurring 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, herbicides, organic chemical contaminants, and radioactive contaminants. In order to ensure that tap water is safe to drink, New York State and the USEPA prescribe regulations which limit the concentration 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 source consists of eight groundwater wells located on twelve acres of land, which are located in the Town of Fishkill. The wells range in depth from 84 feet to 240 feet. The water is disinfected with sodium hypochlorite prior to distribution to the system.

The NYS Dept. of Health has completed a source water assessment for this system, based on available information. Possible and actual threats to this 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 sections "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected, if any. The source water assessments provide resource managers with additional information for protecting source waters into the future.

The source water assessment has rated our water source as having an elevated susceptibility to microbial and nitrate contamination. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and the related activities in the assessment area. In addition, the wells draw from fractured bedrock and the overlying sand & gravel soils may not provide adequate protection from potential contamination.

The county and state health departments will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, and planning and education programs. A copy of the assessment can be obtained by contacting us, as noted below.

**FACTS AND FIGURES**

Our water system serves 1,197 village service connections combined with the out of Village users for an approximate total population of 11,289 people. The total amount of water produced in 2013 was 535,600,800 gallons. The daily average of water treated and pumped into the distribution system was 1,467,399 gallons per day. Our highest single day for a 24 hr period was 2,353,000 gallons on May 17,2013.

The Water Rates for 2013 were as follows:

<b>Village Residents:</b>	\$12.50 for 1 <sup>st</sup> 1,000 cu. Ft.* \$ 8.13 for every 1,000 cu. Ft. After
<b>Out of Village Residents:</b>	\$25.00 for 1 <sup>st</sup> 1,000 cu. Ft. \$16.25 for every 1,000 cu. Ft.

- 1 cu. Ft = 7.48 gallons.

**ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

As the State regulations require, we routinely test your drinking water for numerous constituents. These constituents include: total coliform, inorganic compounds, total trihalomethanes, haloacetic acids, radionuclides, nitrates, nitrites, lead, copper, volatile organic compounds (VOC's), and synthetic organic compounds (SOC's). The table presented below depicts which compounds were detected in your drinking water. The State has us test for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data listed in this report, though representative and within in the requirements of the NYS Sanitary Code, is more than one year old.

It should be noted that all drinking water, including bottled drinking water, contains 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 Dutchess County Health Department at (845-486-3400).

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.

**Table of Detected Contaminants**

<b>Disinfection By-Products</b>							
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
TTHM (Total Trihalomethanes)	N	9/25/13	3.24	ppb (Parts per billion)	0	MCL = 80.0	By-product of drinking water chlorination
Haloacetic Acids (total)	N	9/25/13	<1.0	ppb	0	MCL = 60.0	By-product of drinking water chlorination

Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Total Coliform	Yes	5/22/13	2 positive samples	N/A	N/A	MCL=2 or more positive samples in 1 month	Naturally present in the environment

Systems that collect fewer than 40 total coliform samples per month, must report the highest number of positive samples collected in any one month. If 2 or more samples are positive for total coliforms a MCL violation has occurred. Follow up sampling was performed, public notification occurred; all follow up sample results were absent of total coliform

Inorganic Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, OR AL)	Likely Source of Contamination
Mercury	N	12/18/13	0.2	ppb	2	2	Erosion of natural deposits; discharge from refineries
Barium	N	12/18/13	24.7	ppb	2000	2000	Discharge of drilling waste; discharge from metal refineries, erosion of natural deposits.
Cadmium	N	12/18/13	0.5	ppb	5	5	Corrosion of galvanized pipes, erosion of natural deposits; discharge from metal refineries, run off from waste batteries & paints
Nitrate	N	12/18/13	0.36	mg/L	10	10	Fertilizers runoff. Septic tank leachate.
Chromium	N	12/18/13	<2.0	ppb	100	100	Erosion of natural deposits; discharge from steel & pulp mills.
Nickel	N	12/18/13	1.1	ppb	N/A	100	Discharge from steel metal factories
Sodium (2)	N	3/21/13	29.0	ppm	N/A	No Limit	Naturally occurring and road salt contamination.
Selenium	N	12/18/13	3.0	ppb	50	50	Discharge from metal & petroleum refineries; erosion from natural deposits, discharges from mines
Chloride	N	3/21/13	61.1	ppm	N/A	250	Naturally occurring or indicative of road salt contamination
Cyanide	N	12/18/13	100	ppb	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	N	12/18/13	<0.1	mg/L	N/A	2.2	Erosion of natural deposits; discharge from fertilizer or aluminum factories
Total Dissolved Solids Well #11	N	11/6/13	326	mg/L	N/A	N/A	
Alkalinity Well #11	N	11/6/13	130	mg/L	N/A	N/A	
Hardness Well #11	N	11/6/13	136	mg/L	N/A	N/A	Naturally occurring /mineral deposits
Sulfate Well #11	N	11/6/13	22.2	mg/L	N/A	250	Naturally occurring
Iron Well #11	N	11/6/13	0.015	mg/L	N/A	0.3	Naturally occurring

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, OR AL)	Likely Source of Contamination
Magnesium Well #11	N	11/6/13	10.9	mg/L	N/A	N/A	Naturally occurring / mineral deposit
Manganese Well #11	N	11/6/13	0.060	mg/L	N/A	0.3	Naturally occurring; Indicative of landfill contamination
Copper Well #11	N	11/6/13	0.0018	mg/L	1.3	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives
Lead (1)	N	7/27/10 7/28/10 9/22/10	<0.5 – 12.6 Range 1.7 Avg. 90 <sup>th</sup> Percentile 3.3	ppb	0	15	Corrosion of household plumbing systems; Erosion of natural deposits;
Copper (1)	N	7/27/10 7/28/10 9/22/10	.004 – 0.92 Range .042 Avg. 90 <sup>th</sup> Percentile .065	ppm	0	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.

**Notes:**

1 – The level presented represents the 90<sup>th</sup> percentile of the 20 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 90<sup>th</sup> percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, 20 samples were collected at your water system and the 90<sup>th</sup> percentile value was 3.0 ppb the highest value was 8.0 ppb, the second highest was 5.0 ppb.

**Advisory:** Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. 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 higher than at other homes in the community as a result of materials used in your home’s plumbing. The Village of Fishkill 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 the 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>.

2 – Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

**Definitions:**

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**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 that are longer than 10 micrometers.

### **WHAT DOES THIS INFORMATION MEAN?**

As you can see by the table, our system had a violation for Total Coliform Bacteria being present on 5/22/13. At that time, a public notification was released and we chlorinated and flushed the pipes in the distribution system to make sure bacteria was eliminated. After further testing on 5/23/13 and 5/24/13, Total Coliform Bacteria was not detected and the public notification was lifted.

Health Effects for Total Coliform Bacteria: Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

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

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During 2013, we did not complete all monitoring or testing for Lead and Copper. This was reported to the Dutchess County Health Department and based on the relatively low results from the 2010 testing the policy is to go back to yearly sampling. The next samples will be taken in June of 2014.

### **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, 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.
- ◆ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, then check the meter after 15 minutes, if it moved, you have a leak.

### **SYSTEM IMPROVEMENTS**

Due to approval delays the water main improvements for Rt-9 south of Clove Rd. was moved to the summer of 2014 when the Village will be replacing the 10" cast iron water main from Clove Rd south to the Putnam Co. line; this 100-year-old section of main has been a source for multiple water main breaks in the past; with this replacement the number of dirty water issues should be greatly reduced as will water loss volumes. Public bidding is scheduled for spring 2014. A new 2 MG storage tank is continuing through the design and planning phase, this improvement will occur once the new main has been installed on Rt-9 south of the water supply. Once again the Village has performed its semiannual flushing during day light hours reducing over time costs and providing for a more efficient system wide flushing. Dirty water issues during 2013 were very minor and related to localized water main repairs.

#### **CLOSING**

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

Robert P. LaColla  
Town of Fishkill Supervisor  
(845) 831-7800 \* 3309  
(845) 831-1706 fax  
e-mail: blacolla@fishkill-ny.gov



Fishkill Town Hall  
807 Route 52  
Fishkill, NY 12524-3110  
website: [www.fishkill-ny.gov](http://www.fishkill-ny.gov)

*Annual Drinking Water Quality Report for 2013  
Brinkerhoff Water District  
Fishkill, New York 12524  
Public Water Supply ID# NY1302766*

## **INTRODUCTION**

To comply with State regulations, the Brinkerhoff Water District is issuing an annual 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 CAMO Pollution Control, Inc. at (845) 463-7310. We want you to be informed about your drinking water. The time and place of regularly scheduled Town Board meetings may be obtained from Darlene Bellis, Town Clerk, at (845) 831-7800.

## **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 3,788 customers through 950 service connections. Our water source is groundwater drawn from three gravel wells. The three wells have submersible pumps that pump to a pneumatic tank in order to maintain system pressure. The overall quality of this source during 2013 was excellent and in compliance with standards set by the New York State Department of Health. The supply of water fully met all demands in 2013.

The treatment of our water consists of disinfection with chlorine to destroy microorganisms. Well #3, our biggest well and the reserve well, has been deemed to be under the influent of surface water. Treatment was to be installed by 2011. The New York State Health Department considers this a violation of 5-1.30 and 5-1.9 of Part 5 New York State Sanitary Code. The Town Board has authorized the work, which is currently being designed and will be completed in the future. It should be noted that well 3 was exercised and in a "ready" state in case of an emergency, but was not utilized during 2013.

## **SOURCE WATER ASSESSMENT**

The New York State Department of Health has completed a source water assessment for this system, based on available information. Possible and actual threats to this 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, infected. See the section "What's In My Water?" for a list of the contaminants that have been detected, if any. The source water assessments provide resource managers with additional information for protecting source waters into the future.

The source water assessment has rated our water as having an elevated susceptibility to microbials, nitrates, industrial solvents, and other industrial contamination. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the State or Federal government) and to residential land use and related activities in the assessment area. In addition, the wells draw from fractured bedrock, and the overlying soils may not provide adequate protection from potential contamination. While the source water assessment has rated 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.

The County and State health departments will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, planning, and education programs. A copy of the assessment can be obtained by contacting us at (845) 463-7310.

## **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, haloacetic acids, radiological 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 Dutchess County Health Department at (845) 486-3404.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
<b>Inorganics</b>							
Arsenic	No	11/2013	0.5	ppb	NA	10	Erosion of natural deposits; runoff from glass and electronics production wastes
Barium	No	11/2013	0.0210	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chloride	No	11/2013	120	ppm	NA	250	Naturally occurring or indicative of road salt contamination
Copper See footnote 2	No	07/2011	0.0789	ppm	1.3	AL = 1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead See footnote 2	No	07/2011	2.9	ppb	0	AL = 15	Corrosion of household plumbing systems; erosion of natural deposits
Nickel	No	11/2013	0.0016	ppm	NA	NA	Naturally occurring
Nitrate	No	11/2013	1.96	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Odor	No	11/2012	1	unit	NA	3	Organic or inorganic pollutants originating from municipal & industrial discharges; naturally occurring
Sodium See footnote 1	No	11/2013	69.5	ppm	NA	See footnote 1	Naturally occurring; road salt; water softeners; animal waste
Sulfate	No	11/2013	28.1	ppm	NA	250	Naturally occurring
<b>Disinfection Byproducts</b>							
Haloacetic Acid	No	07/2013	0.82	ppb	NA	MCL = 60	By-product of drinking water chlorination
Total Trihalomethanes	No	07/2013	1.69	ppb	NA	MCL = 80	By-product of drinking water chlorination

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Notes:

1 – Water containing more than 20 ppm of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 ppm of sodium should not be used for drinking by people on moderately restricted sodium diets.

2 – The levels reported for lead and copper represent the 90<sup>th</sup> percentile of the total number of 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 90<sup>th</sup> percentile is equal to or greater than 90% of the lead and copper values detected at your water system.

**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.

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**Milligrams per liter (mg/l):** Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

## 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.

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. **CAMO Pollution Control, Inc.** 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 2013, 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 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 **CAMO Pollution Control, Inc. at (845) 463-7310** if you have questions.

**Annual Drinking Water Quality Report for 2013**  
**Village of Fishkill**  
**1095 Main Street, Fishkill, New York 12524**  
**(Public Water Supply ID# 1302765)**

**INTRODUCTION**

To comply with State regulations the Village of Fishkill 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. Once again 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. 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 Dave Morrison, Water Superintendent, 845-896-8070. 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 held the third (3rd) Monday of every month at 7:00 PM. The meeting place is a Van Wyck Hall located at 1095 Main Street in Fishkill.

**WHERE DOES OUR WATER COME FROM?**

Generally, 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, naturally occurring 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, herbicides, organic chemical contaminants, and radioactive contaminants. In order to ensure that tap water is safe to drink, New York State and the USEPA prescribe regulations which limit the concentration 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 source consists of eight groundwater wells located on twelve acres of land, which are located in the Town of Fishkill. The wells range in depth from 84 feet to 240 feet. The water is disinfected with sodium hypochlorite prior to distribution to the system.

The NYS Dept. of Health has completed a source water assessment for this system, based on available information. Possible and actual threats to this 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 sections "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected, if any. The source water assessments provide resource managers with additional information for protecting source waters into the future.

The source water assessment has rated our water source as having an elevated susceptibility to microbial and nitrate contamination. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and the related activities in the assessment area. In addition, the wells draw from fractured bedrock and the overlying sand & gravel soils may not provide adequate protection from potential contamination.

The county and state health departments will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, and planning and education programs. A copy of the assessment can be obtained by contacting us, as noted below.

**FACTS AND FIGURES**

Our water system serves 1,197 village service connections combined with the out of Village users for an approximate total population of 11,289 people. The total amount of water produced in 2013 was 535,600,800 gallons. The daily average of water treated and pumped into the distribution system was 1,467,399 gallons per day. Our highest single day for a 24 hr period was 2,353,000 gallons on May 17,2013.

The Water Rates for 2013 were as follows:

<b>Village Residents:</b>	\$12.50 for 1 <sup>st</sup> 1,000 cu. Ft.* \$ 8.13 for every 1,000 cu. Ft. After
<b>Out of Village Residents:</b>	\$25.00 for 1 <sup>st</sup> 1,000 cu. Ft. \$16.25 for every 1,000 cu. Ft.

- 1 cu. Ft = 7.48 gallons.

**ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

As the State regulations require, we routinely test your drinking water for numerous constituents. These constituents include: total coliform, inorganic compounds, total trihalomethanes, haloacetic acids, radionuclides, nitrates, nitrites, lead, copper, volatile organic compounds (VOC's), and synthetic organic compounds (SOC's). The table presented below depicts which compounds were detected in your drinking water. The State has us test for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data listed in this report, though representative and within in the requirements of the NYS Sanitary Code, is more than one year old.

It should be noted that all drinking water, including bottled drinking water, contains 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 Dutchess County Health Department at (845-486-3400).

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.

**Table of Detected Contaminants**

<b>Disinfection By-Products</b>							
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
TTHM (Total Trihalomethanes)	N	9/25/13	3.24	ppb (Parts per billion)	0	MCL = 80.0	By-product of drinking water chlorination
Haloacetic Acids (total)	N	9/25/13	<1.0	ppb	0	MCL = 60.0	By-product of drinking water chlorination

Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Total Coliform	Yes	5/22/13	2 positive samples	N/A	N/A	MCL=2 or more positive samples in 1 month	Naturally present in the environment

Systems that collect fewer than 40 total coliform samples per month, must report the highest number of positive samples collected in any one month. If 2 or more samples are positive for total coliforms a MCL violation has occurred. Follow up sampling was performed, public notification occurred; all follow up sample results were absent of total coliform

Inorganic Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, OR AL)	Likely Source of Contamination
Mercury	N	12/18/13	0.2	ppb	2	2	Erosion of natural deposits; discharge from refineries
Barium	N	12/18/13	24.7	ppb	2000	2000	Discharge of drilling waste; discharge from metal refineries, erosion of natural deposits.
Cadmium	N	12/18/13	0.5	ppb	5	5	Corrosion of galvanized pipes, erosion of natural deposits; discharge from metal refineries, run off from waste batteries & paints
Nitrate	N	12/18/13	0.36	mg/L	10	10	Fertilizers runoff. Septic tank leachate.
Chromium	N	12/18/13	<2.0	ppb	100	100	Erosion of natural deposits; discharge from steel & pulp mills.
Nickel	N	12/18/13	1.1	ppb	N/A	100	Discharge from steel metal factories
Sodium (2)	N	3/21/13	29.0	ppm	N/A	No Limit	Naturally occurring and road salt contamination.
Selenium	N	12/18/13	3.0	ppb	50	50	Discharge from metal & petroleum refineries; erosion from natural deposits, discharges from mines
Chloride	N	3/21/13	61.1	ppm	N/A	250	Naturally occurring or indicative of road salt contamination
Cyanide	N	12/18/13	100	ppb	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	N	12/18/13	<0.1	mg/L	N/A	2.2	Erosion of natural deposits; discharge from fertilizer or aluminum factories
Total Dissolved Solids Well #11	N	11/6/13	326	mg/L	N/A	N/A	
Alkalinity Well #11	N	11/6/13	130	mg/L	N/A	N/A	
Hardness Well #11	N	11/6/13	136	mg/L	N/A	N/A	Naturally occurring /mineral deposits
Sulfate Well #11	N	11/6/13	22.2	mg/L	N/A	250	Naturally occurring
Iron Well #11	N	11/6/13	0.015	mg/L	N/A	0.3	Naturally occurring

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, OR AL)	Likely Source of Contamination
Magnesium Well #11	N	11/6/13	10.9	mg/L	N/A	N/A	Naturally occurring / mineral deposit
Manganese Well #11	N	11/6/13	0.060	mg/L	N/A	0.3	Naturally occurring; Indicative of landfill contamination
Copper Well #11	N	11/6/13	0.0018	mg/L	1.3	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives
Lead (1)	N	7/27/10 7/28/10 9/22/10	<0.5 – 12.6 Range 1.7 Avg. 90 <sup>th</sup> Percentile 3.3	ppb	0	15	Corrosion of household plumbing systems; Erosion of natural deposits;
Copper (1)	N	7/27/10 7/28/10 9/22/10	.004 – 0.92 Range .042 Avg. 90 <sup>th</sup> Percentile .065	ppm	0	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.

**Notes:**

1 – The level presented represents the 90<sup>th</sup> percentile of the 20 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 90<sup>th</sup> percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, 20 samples were collected at your water system and the 90<sup>th</sup> percentile value was 3.0 ppb the highest value was 8.0 ppb, the second highest was 5.0 ppb.

**Advisory:** Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. 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 higher than at other homes in the community as a result of materials used in your home’s plumbing. The Village of Fishkill 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 the 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>.

2 – Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

**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.

**Action Level (AL):** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

**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 that are longer than 10 micrometers.

### **WHAT DOES THIS INFORMATION MEAN?**

As you can see by the table, our system had a violation for Total Coliform Bacteria being present on 5/22/13. At that time, a public notification was released and we chlorinated and flushed the pipes in the distribution system to make sure bacteria was eliminated. After further testing on 5/23/13 and 5/24/13, Total Coliform Bacteria was not detected and the public notification was lifted.

Health Effects for Total Coliform Bacteria: Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

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

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During 2013, we did not complete all monitoring or testing for Lead and Copper. This was reported to the Dutchess County Health Department and based on the relatively low results from the 2010 testing the policy is to go back to yearly sampling. The next samples will be taken in June of 2014.

### **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, 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.
- ◆ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, then check the meter after 15 minutes, if it moved, you have a leak.

### **SYSTEM IMPROVEMENTS**

Due to approval delays the water main improvements for Rt-9 south of Clove Rd. was moved to the summer of 2014 when the Village will be replacing the 10" cast iron water main from Clove Rd south to the Putnam Co. line; this 100-year-old section of main has been a source for multiple water main breaks in the past; with this replacement the number of dirty water issues should be greatly reduced as will water loss volumes. Public bidding is scheduled for spring 2014. A new 2 MG storage tank is continuing through the design and planning phase, this improvement will occur once the new main has been installed on Rt-9 south of the water supply. Once again the Village has performed its semiannual flushing during day light hours reducing over time costs and providing for a more efficient system wide flushing. Dirty water issues during 2013 were very minor and related to localized water main repairs.

#### **CLOSING**

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

Robert P. LaColla  
Town of Fishkill Supervisor  
(845) 831-7800 \* 3309  
(845) 831-1706 fax  
e-mail: blacolla@fishkill-ny.gov



Fishkill Town Hall  
807 Route 52  
Fishkill, NY 12524-3110  
website: www.fishkill-ny.gov

*Annual Drinking Water Quality Report for 2013  
Glenham Water District  
Fishkill, New York 12524  
Public Water Supply ID# 1305651*

## **INTRODUCTION**

To comply with State regulations, the Glenham Water District is issuing an annual 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 **CAMO Pollution Control, Inc.** at (845) 463-7310. We want you to be informed about your drinking water. The time and place of regularly scheduled town board meetings may be obtained from Darlene Bellis, Town Clerk, at (845) 831-7800.

## **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 2,260 residents through 864 service connections. Our water source is purchased from the Village of Fishkill. Treatment of the water by the Village consists of disinfections with Sodium Hypochlorite prior to distribution. The quality of water from the Village meets all satisfactory standards from the New York State Department of Health. A copy of the 2013 Annual

Water Quality Report issued by the Village of Fishkill to all residents is attached. During 2013 our system did not experience any restriction of our water source.

**WE ASK THAT ALL OF OUR RESIDENTS BE VIGILANT IN REGARD TO SUSPICIOUS ACTIVITY IN THE AREA OF OUR WATER TREATMENT PLANTS.**

**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, lead and copper, total trihalomethanes, AND haloacetic acids. The ATTACHED Village of Fishkill Annual Water Quality Report for 2013 contains all water quality information. Additionally, the Town of Fishkill monitors water quality and chlorine residual on a daily basis. 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 Dutchess County Health Department at (845) 486-3404.

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>Inorganics</b>							
Copper See note 1	No	06/2011	0.0482 (0.0311-0.0771)	mg/l	1.3	AL = 1.3 mg/l	Corrosion of household plumbing systems; erosion of natural deposits
Iron	No	04/2012	20	ug/l	N/A	MCL = 300 ug/l	Naturally occurring
Lead See note 2	No	06/2011	0.0010 (ND-0.0015)	mg/l	0	AL = 0.015 mg/l	Corrosion of household plumbing systems; erosion of natural deposits
Manganese	No	04/2012	134	ug/l	N/A	MCL = 300 ug/l	Naturally occurring; indicative of landfill contamination
<b>Disinfection Byproducts</b>							
Haloacetic Acids	No	07/2013	1.46	ug/l	N/A	MCL = 60 ug/l	By-product of drinking water chlorination
Total Trihalomethanes	No	07/2013	6.90	ug/l	N/A	MCL = 80 ug/l	By-product of drinking water chlorination

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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 copper values detected at your water system. The action level for copper was not exceeded at any of the sites tested.

2 – The level presented represents the 90th percentile of the 10 samples collected. The action level for lead was not exceeded at any of the 10 sites tested.

**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.

**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).

**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.

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. **CAMO Pollution Control, Inc.** 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?**

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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).

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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;
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- ◆ 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 **CAMO Pollution Control, Inc.** at **(845) 463-7310** if you have questions.

**Annual Drinking Water Quality Report for 2013**  
**Village of Fishkill**  
**1095 Main Street, Fishkill, New York 12524**  
**(Public Water Supply ID# 1302765)**

**INTRODUCTION**

To comply with State regulations the Village of Fishkill 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. Once again 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. 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 Dave Morrison, Water Superintendent, 845-896-8070. 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 held the third (3rd) Monday of every month at 7:00 PM. The meeting place is a Van Wyck Hall located at 1095 Main Street in Fishkill.

**WHERE DOES OUR WATER COME FROM?**

Generally, 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, naturally occurring 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, herbicides, organic chemical contaminants, and radioactive contaminants. In order to ensure that tap water is safe to drink, New York State and the USEPA prescribe regulations which limit the concentration 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 source consists of eight groundwater wells located on twelve acres of land, which are located in the Town of Fishkill. The wells range in depth from 84 feet to 240 feet. The water is disinfected with sodium hypochlorite prior to distribution to the system.

The NYS Dept. of Health has completed a source water assessment for this system, based on available information. Possible and actual threats to this 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 sections "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected, if any. The source water assessments provide resource managers with additional information for protecting source waters into the future.

The source water assessment has rated our water source as having an elevated susceptibility to microbial and nitrate contamination. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and the related activities in the assessment area. In addition, the wells draw from fractured bedrock and the overlying sand & gravel soils may not provide adequate protection from potential contamination.

The county and state health departments will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, and planning and education programs. A copy of the assessment can be obtained by contacting us, as noted below.

**FACTS AND FIGURES**

Our water system serves 1,197 village service connections combined with the out of Village users for an approximate total population of 11,289 people. The total amount of water produced in 2013 was 535,600,800 gallons. The daily average of water treated and pumped into the distribution system was 1,467,399 gallons per day. Our highest single day for a 24 hr period was 2,353,000 gallons on May 17,2013.

The Water Rates for 2013 were as follows:

<b>Village Residents:</b>	<b>\$12.50 for 1<sup>st</sup> 1,000 cu. Ft.*</b> <b>\$ 8.13 for every 1,000 cu. Ft. After</b>
<b>Out of Village Residents:</b>	<b>\$25.00 for 1<sup>st</sup> 1,000 cu. Ft.</b> <b>\$16.25 for every 1,000 cu. Ft.</b>

- 1 cu. Ft = 7.48 gallons.

**ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

As the State regulations require, we routinely test your drinking water for numerous constituents. These constituents include: total coliform, inorganic compounds, total trihalomethanes, haloacetic acids, radionuclides, nitrates, nitrites, lead, copper, volatile organic compounds (VOC's), and synthetic organic compounds (SOC's). The table presented below depicts which compounds were detected in your drinking water. The State has us test for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data listed in this report, though representative and within in the requirements of the NYS Sanitary Code, is more than one year old.

It should be noted that all drinking water, including bottled drinking water, contains 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 Dutchess County Health Department at (845-486-3400).

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.

**Table of Detected Contaminants**

<b>Disinfection By-Products</b>							
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
TTHM (Total Trihalomethanes)	N	9/25/13	3.24	ppb (Parts per billion)	0	MCL = 80.0	By-product of drinking water chlorination
Haloacetic Acids (total)	N	9/25/13	<1.0	ppb	0	MCL = 60.0	By-product of drinking water chlorination

Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Total Coliform	Yes	5/22/13	2 positive samples	N/A	N/A	MCL=2 or more positive samples in 1 month	Naturally present in the environment

Systems that collect fewer than 40 total coliform samples per month, must report the highest number of positive samples collected in any one month. If 2 or more samples are positive for total coliforms a MCL violation has occurred. Follow up sampling was performed, public notification occurred; all follow up sample results were absent of total coliform

Inorganic Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, OR AL)	Likely Source of Contamination
Mercury	N	12/18/13	0.2	ppb	2	2	Erosion of natural deposits; discharge from refineries
Barium	N	12/18/13	24.7	ppb	2000	2000	Discharge of drilling waste; discharge from metal refineries, erosion of natural deposits.
Cadmium	N	12/18/13	0.5	ppb	5	5	Corrosion of galvanized pipes, erosion of natural deposits; discharge from metal refineries, run off from waste batteries & paints
Nitrate	N	12/18/13	0.36	mg/L	10	10	Fertilizers runoff. Septic tank leachate.
Chromium	N	12/18/13	<2.0	ppb	100	100	Erosion of natural deposits; discharge from steel & pulp mills.
Nickel	N	12/18/13	1.1	ppb	N/A	100	Discharge from steel metal factories
Sodium (2)	N	3/21/13	29.0	ppm	N/A	No Limit	Naturally occurring and road salt contamination.
Selenium	N	12/18/13	3.0	ppb	50	50	Discharge from metal & petroleum refineries; erosion from natural deposits, discharges from mines
Chloride	N	3/21/13	61.1	ppm	N/A	250	Naturally occurring or indicative of road salt contamination
Cyanide	N	12/18/13	100	ppb	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	N	12/18/13	<0.1	mg/L	N/A	2.2	Erosion of natural deposits; discharge from fertilizer or aluminum factories
Total Dissolved Solids Well #11	N	11/6/13	326	mg/L	N/A	N/A	
Alkalinity Well #11	N	11/6/13	130	mg/L	N/A	N/A	
Hardness Well #11	N	11/6/13	136	mg/L	N/A	N/A	Naturally occurring /mineral deposits
Sulfate Well #11	N	11/6/13	22.2	mg/L	N/A	250	Naturally occurring
Iron Well #11	N	11/6/13	0.015	mg/L	N/A	0.3	Naturally occurring

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, OR AL)	Likely Source of Contamination
Magnesium Well #11	N	11/6/13	10.9	mg/L	N/A	N/A	Naturally occurring / mineral deposit
Manganese Well #11	N	11/6/13	0.060	mg/L	N/A	0.3	Naturally occurring; Indicative of landfill contamination
Copper Well #11	N	11/6/13	0.0018	mg/L	1.3	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives
Lead (1)	N	7/27/10 7/28/10 9/22/10	<0.5 – 12.6 Range 1.7 Avg. 90 <sup>th</sup> Percentile 3.3	ppb	0	15	Corrosion of household plumbing systems; Erosion of natural deposits;
Copper (1)	N	7/27/10 7/28/10 9/22/10	.004 – 0.92 Range .042 Avg. 90 <sup>th</sup> Percentile .065	ppm	0	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.

**Notes:**

1 – The level presented represents the 90<sup>th</sup> percentile of the 20 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 90<sup>th</sup> percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, 20 samples were collected at your water system and the 90<sup>th</sup> percentile value was 3.0 ppb the highest value was 8.0 ppb, the second highest was 5.0 ppb.

**Advisory:** Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. 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 higher than at other homes in the community as a result of materials used in your home’s plumbing. The Village of Fishkill 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 the 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>.

2 – Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

**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.

**Action Level (AL):** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

**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 that are longer than 10 micrometers.

## WHAT DOES THIS INFORMATION MEAN?

As you can see by the table, our system had a violation for Total Coliform Bacteria being present on 5/22/13. At that time, a public notification was released and we chlorinated and flushed the pipes in the distribution system to make sure bacteria was eliminated. After further testing on 5/23/13 and 5/24/13, Total Coliform Bacteria was not detected and the public notification was lifted.

Health Effects for Total Coliform Bacteria: Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

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

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During 2013, we did not complete all monitoring or testing for Lead and Copper. This was reported to the Dutchess County Health Department and based on the relatively low results from the 2010 testing the policy is to go back to yearly sampling. The next samples will be taken in June of 2014.

## 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, 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.
- ◆ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, then check the meter after 15 minutes, if it moved, you have a leak.

## SYSTEM IMPROVEMENTS

Due to approval delays the water main improvements for Rt-9 south of Clove Rd. was moved to the summer of 2014 when the Village will be replacing the 10" cast iron water main from Clove Rd south to the Putnam Co. line; this 100-year-old section of main has been a source for multiple water main breaks in the past; with this replacement the number of dirty water issues should be greatly reduced as will water loss volumes. Public bidding is scheduled for spring 2014. A new 2 MG storage tank is continuing through the design and planning phase, this improvement will occur once the new main has been installed on Rt-9 south of the water supply. Once again the Village has performed its semiannual flushing during day light hours reducing over time costs and providing for a more efficient system wide flushing. Dirty water issues during 2013 were very minor and related to localized water main repairs.

#### **CLOSING**

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

Robert P. LaColla  
Town of Fishkill Supervisor  
(845) 831-7800 \* 3309  
(845) 831-1706 fax  
e-mail: blacolla@fishkill-ny.gov



Fishkill Town Hall  
807 Route 52  
Fishkill, NY 12524-3110  
website: [www.fishkill-ny.gov](http://www.fishkill-ny.gov)

*Annual Drinking Water Quality Report for 2013*  
*Merritt Park Water District*  
*Fishkill, New York*  
*Public Water Supply ID# 1330656*

## **INTRODUCTION**

To comply with State regulations, the Merritt Park Water District is issuing this annual 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 **CAMO Pollution Control, Inc.** at (845) 463-7310. We want you to be informed about your drinking water. The time and place of regularly scheduled town board meetings may be obtained from Darlene Bellis, Town Clerk, at (845) 831-7800.

## **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 1,500 people through 500 service connections. Our water source is groundwater drawn from two 60-foot deep drilled wells which are located on Snook Road. The water is disinfected with sodium hypochlorite prior to distribution.

During 2013 our detailed testing program showed chloride levels significantly below maximum contaminant levels set forth by the State. We no longer are required to use Village of Fishkill water for blending, and in 2013 less than 1% of our total water came from the Village of Fishkill. We have attached a copy of the Village of Fishkill Annual Water Quality Report for 2013.

As in the past, the water for the Merritt Park Water District meets all requirements set forth by the New York State Department of Health. Despite the chloride level reduction in the wells and the continued compliance with all testing parameters set forth by the State, the district is still required to provide long-term capital improvements in order to ensure that if the chloride levels return, a plan is in place to reduce them. The Town has authorized the Town Engineer to proceed with a plan which has been developed and submitted to the Health Department. We are currently responding to Health Department comments regarding that plan.

The water in the Merritt Park Water System does contain levels of hardness. The estimated hardness of your water is between 10 and 12 grains per gallon.

### **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, lead and copper, total trihalomethanes, and haloacetic acids. 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 Dutchess County Health Department at (845) 486-3404.

Table of Detected Contaminants						
Inorganics						
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Range)	Unit of Measure	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Arsenic	No	12/2013	0.0012	mg/l	MCL=0.05	Erosion of natural deposits
Barium	No	12/2013	0.0154	mg/l	2.0	Erosion of natural deposits
Chloride See Note 5	No	2013	112.9 (96.6-127)	mg/l	MCL=250	Water softener discharge; road salt
Copper See Note 1	No	06/2011	0.220 (0.0191-.220)	mg/l	AL=1.3	Corrosion of household plumbing; erosion of natural deposits
Fluoride	No	12/2013	0.12	mg/l	2.2	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer & aluminum factories
Lead See Note 2	No	06/2011	0.0058 (ND-0.0087)	mg/l	AL=0.015	Corrosion of household plumbing; erosion of natural deposits
Nickel	No	12/2013	0.0011	mg/l	0.1	Naturally occurring
Nitrate	No	12/2103	1.04	mg/l	MCL=10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Sodium See Note 5	No	2013	104.1 (92.6-112)	mg/l	Dietary Restriction- See Health Effects	Water softener discharge; road salt
Sulfate	No	12/2013	29.4	mg/l	250	Naturally occurring
Zinc	No	12/2013	0.007	mg/l	5.0	Naturally occurring; mining waste
Disinfection Byproducts						
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Range)	Unit of Measure	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Haloacetic Acids	No	07/2013	6.04	ug/l	MCL=60	By-product of drinking water chlorination
Total Trihalomethanes	No	07/2013	7.90	ug/l	MCL=80	By-product of drinking water chlorination
Radioactive Contaminants						
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Range)	Unit of Measure	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Gross Alpha See Note 3	No	09/2009	3.47+/-1.19	pCi/L	15 See Note 3	Erosion of natural deposits
Radium 226 See Note 4	No	09/2009	0.17+/-0.06	pCi/L	See Note 4	Decay of natural and manmade deposits
Radium 228 See Note 4	No	09/2009	0.18+/-0.43	pCi/L	See Note 4	Decay of natural and manmade deposits

Notes:

1 – The level presented represents the 90<sup>th</sup> 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 90<sup>th</sup> percentile is equal to or greater than 90% of the copper values detected at your water system. The action level for copper was not exceeded at any of the sites tested.

2 – The level presented represents the 90<sup>th</sup> percentile of the 10 samples collected. The action level for lead was not exceeded at any of the 10 sites tested.

3 – The MCL for Gross Alpha is 15 pCi/L after exclusion of Uranium.

4 – Radium 226 & Radium 228 combined has an MCL of 5.

5 - This is the average of the 24 required yearly samples. The test results show acceptable levels of chlorides and sodium in the water. However, as operators we are concerned with maintaining these levels. Sodium does not have a maximum contaminant level. Sodium levels in the well water are at a level of 104.1 milligrams per liter. This level will be increased by a water softener, if you have one. Water containing more than 20 milligrams of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 milligrams per liter of sodium should not be used by people on moderately restricted sodium diets. It is the recommendation of the Town that you consult your physician regarding these levels if you are on a sodium restricted diet. The chloride level in the water samples collected was 112.9 milligrams per liter. The presence of chloride ions in the drinking water above the maximum contaminant level of 250 milligrams per liter can result in two undesirable aesthetic effects. First, you may detect an objectionable taste of the water. Second, the higher level of chloride may cause an advance corrosion of the pipes within the water system. Softener backwash into septic systems is contributing to the elevated levels of sodium and chlorides in the well water. All homeowners with softeners should check and adjust their softeners in order to limit the amount of brine solution discharged into septic systems and groundwater.

### **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.

**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).

**Picocuries 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.

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. **CAMO Pollution Control, Inc.** 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 2013, 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 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.

### **HELPFUL INFORMATION REGARDING THE WATER SUPPLY**

The average pressure on the water mains is in excess of 100 lbs. In order to protect appliances and internal plumbing, the Town building code states that each home is responsible for providing and maintaining a pressure reducing valve. The shelf life for pressure reducing valves in this district is three to five years. When they fail, many times the customer loses pressure.

### **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. We ask that all of our residents be vigilant in regard to suspicious activity in the area of our water treatment plants. Please call **CAMO Pollution Control, Inc. at (845) 463-7310** if you have questions.

**Annual Drinking Water Quality Report for 2013**  
**Village of Fishkill**  
**1095 Main Street, Fishkill, New York 12524**  
**(Public Water Supply ID# 1302765)**

**INTRODUCTION**

To comply with State regulations the Village of Fishkill 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. Once again 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. 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 Dave Morrison, Water Superintendent, 845-896-8070. 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 held the third (3rd) Monday of every month at 7:00 PM. The meeting place is a Van Wyck Hall located at 1095 Main Street in Fishkill.

**WHERE DOES OUR WATER COME FROM?**

Generally, 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, naturally occurring 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, herbicides, organic chemical contaminants, and radioactive contaminants. In order to ensure that tap water is safe to drink, New York State and the USEPA prescribe regulations which limit the concentration 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 source consists of eight groundwater wells located on twelve acres of land, which are located in the Town of Fishkill. The wells range in depth from 84 feet to 240 feet. The water is disinfected with sodium hypochlorite prior to distribution to the system.

The NYS Dept. of Health has completed a source water assessment for this system, based on available information. Possible and actual threats to this 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 sections "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected, if any. The source water assessments provide resource managers with additional information for protecting source waters into the future.

The source water assessment has rated our water source as having an elevated susceptibility to microbial and nitrate contamination. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and the related activities in the assessment area. In addition, the wells draw from fractured bedrock and the overlying sand & gravel soils may not provide adequate protection from potential contamination.

The county and state health departments will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, and planning and education programs. A copy of the assessment can be obtained by contacting us, as noted below.

**FACTS AND FIGURES**

Our water system serves 1,197 village service connections combined with the out of Village users for an approximate total population of 11,289 people. The total amount of water produced in 2013 was 535,600,800 gallons. The daily average of water treated and pumped into the distribution system was 1,467,399 gallons per day. Our highest single day for a 24 hr period was 2,353,000 gallons on May 17,2013.

The Water Rates for 2013 were as follows:

<b>Village Residents:</b>	\$12.50 for 1 <sup>st</sup> 1,000 cu. Ft.* \$ 8.13 for every 1,000 cu. Ft. After
<b>Out of Village Residents:</b>	\$25.00 for 1 <sup>st</sup> 1,000 cu. Ft. \$16.25 for every 1,000 cu. Ft.

- 1 cu. Ft = 7.48 gallons.

**ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

As the State regulations require, we routinely test your drinking water for numerous constituents. These constituents include: total coliform, inorganic compounds, total trihalomethanes, haloacetic acids, radionuclides, nitrates, nitrites, lead, copper, volatile organic compounds (VOC's), and synthetic organic compounds (SOC's). The table presented below depicts which compounds were detected in your drinking water. The State has us test for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data listed in this report, though representative and within in the requirements of the NYS Sanitary Code, is more than one year old.

It should be noted that all drinking water, including bottled drinking water, contains 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 Dutchess County Health Department at (845-486-3400).

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.

**Table of Detected Contaminants**

<b>Disinfection By-Products</b>							
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
TTHM (Total Trihalomethanes)	N	9/25/13	3.24	ppb (Parts per billion)	0	MCL = 80.0	By-product of drinking water chlorination
Haloacetic Acids (total)	N	9/25/13	<1.0	ppb	0	MCL = 60.0	By-product of drinking water chlorination

Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Total Coliform	Yes	5/22/13	2 positive samples	N/A	N/A	MCL=2 or more positive samples in 1 month	Naturally present in the environment

Systems that collect fewer than 40 total coliform samples per month, must report the highest number of positive samples collected in any one month. If 2 or more samples are positive for total coliforms a MCL violation has occurred. Follow up sampling was performed, public notification occurred; all follow up sample results were absent of total coliform

Inorganic Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, OR AL)	Likely Source of Contamination
Mercury	N	12/18/13	0.2	ppb	2	2	Erosion of natural deposits; discharge from refineries
Barium	N	12/18/13	24.7	ppb	2000	2000	Discharge of drilling waste; discharge from metal refineries, erosion of natural deposits.
Cadmium	N	12/18/13	0.5	ppb	5	5	Corrosion of galvanized pipes, erosion of natural deposits; discharge from metal refineries, run off from waste batteries & paints
Nitrate	N	12/18/13	0.36	mg/L	10	10	Fertilizers runoff. Septic tank leachate.
Chromium	N	12/18/13	<2.0	ppb	100	100	Erosion of natural deposits; discharge from steel & pulp mills.
Nickel	N	12/18/13	1.1	ppb	N/A	100	Discharge from steel metal factories
Sodium (2)	N	3/21/13	29.0	ppm	N/A	No Limit	Naturally occurring and road salt contamination.
Selenium	N	12/18/13	3.0	ppb	50	50	Discharge from metal & petroleum refineries; erosion from natural deposits, discharges from mines
Chloride	N	3/21/13	61.1	ppm	N/A	250	Naturally occurring or indicative of road salt contamination
Cyanide	N	12/18/13	100	ppb	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	N	12/18/13	<0.1	mg/L	N/A	2.2	Erosion of natural deposits; discharge from fertilizer or aluminum factories
Total Dissolved Solids Well #11	N	11/6/13	326	mg/L	N/A	N/A	
Alkalinity Well #11	N	11/6/13	130	mg/L	N/A	N/A	
Hardness Well #11	N	11/6/13	136	mg/L	N/A	N/A	Naturally occurring /mineral deposits
Sulfate Well #11	N	11/6/13	22.2	mg/L	N/A	250	Naturally occurring
Iron Well #11	N	11/6/13	0.015	mg/L	N/A	0.3	Naturally occurring

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, OR AL)	Likely Source of Contamination
Magnesium Well #11	N	11/6/13	10.9	mg/L	N/A	N/A	Naturally occurring / mineral deposit
Manganese Well #11	N	11/6/13	0.060	mg/L	N/A	0.3	Naturally occurring; Indicative of landfill contamination
Copper Well #11	N	11/6/13	0.0018	mg/L	1.3	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives
Lead (1)	N	7/27/10 7/28/10 9/22/10	<0.5 – 12.6 Range 1.7 Avg. 90 <sup>th</sup> Percentile 3.3	ppb	0	15	Corrosion of household plumbing systems; Erosion of natural deposits;
Copper (1)	N	7/27/10 7/28/10 9/22/10	.004 – 0.92 Range .042 Avg. 90 <sup>th</sup> Percentile .065	ppm	0	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.

**Notes:**

1 – The level presented represents the 90<sup>th</sup> percentile of the 20 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 90<sup>th</sup> percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, 20 samples were collected at your water system and the 90<sup>th</sup> percentile value was 3.0 ppb the highest value was 8.0 ppb, the second highest was 5.0 ppb.

**Advisory:** Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. 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 higher than at other homes in the community as a result of materials used in your home’s plumbing. The Village of Fishkill 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 the 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>.

2 – Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

**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.

**Action Level (AL):** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

**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 that are longer than 10 micrometers.

### **WHAT DOES THIS INFORMATION MEAN?**

As you can see by the table, our system had a violation for Total Coliform Bacteria being present on 5/22/13. At that time, a public notification was released and we chlorinated and flushed the pipes in the distribution system to make sure bacteria was eliminated. After further testing on 5/23/13 and 5/24/13, Total Coliform Bacteria was not detected and the public notification was lifted.

Health Effects for Total Coliform Bacteria: Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

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

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During 2013, we did not complete all monitoring or testing for Lead and Copper. This was reported to the Dutchess County Health Department and based on the relatively low results from the 2010 testing the policy is to go back to yearly sampling. The next samples will be taken in June of 2014.

### **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, 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.
- ◆ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, then check the meter after 15 minutes, if it moved, you have a leak.

### **SYSTEM IMPROVEMENTS**

Due to approval delays the water main improvements for Rt-9 south of Clove Rd. was moved to the summer of 2014 when the Village will be replacing the 10" cast iron water main from Clove Rd south to the Putnam Co. line; this 100-year-old section of main has been a source for multiple water main breaks in the past; with this replacement the number of dirty water issues should be greatly reduced as will water loss volumes. Public bidding is scheduled for spring 2014. A new 2 MG storage tank is continuing through the design and planning phase, this improvement will occur once the new main has been installed on Rt-9 south of the water supply. Once again the Village has performed its semiannual flushing during day light hours reducing over time costs and providing for a more efficient system wide flushing. Dirty water issues during 2013 were very minor and related to localized water main repairs.

#### **CLOSING**

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

Robert P. LaColla  
Town of Fishkill Supervisor  
(845) 831-7800 \* 3309  
(845) 831-1706 fax  
e-mail: blacolla@fishkill-ny.gov



Fishkill Town Hall  
807 Route 52  
Fishkill, NY 12524-3110  
website: www.fishkill-ny.gov

*Annual Drinking Water Quality Report for 2013  
Rombout (Hudson View) Water District  
Fishkill, New York 12524  
Public Water Supply ID# 1319167*

## **INTRODUCTION**

To comply with State regulations, the Rombout Water District 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 **CAMO Pollution Control, Inc.** at (845) 463-7310. We want you to be informed about your drinking water. The time and place of regularly scheduled town board meetings may be obtained from Darlene Bellis, Town Clerk, at (845) 831-7800.

## **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 2,000 residents through 960 service connections. Our water source is a permanent interconnect to the City of Beacon, which was completed in 2002. This permanent interconnection is able to meet all of the supply needs of the Rombout Water District. A copy of the 2013 Annual Water Quality Report issued by the City of Beacon is attached. During 2013 our water system did not experience any restrictions of our water source.

**WE ASK THAT ALL OF OUR RESIDENTS BE VIGILANT IN REGARD  
TO SUSPICIOUS ACTIVITY IN THE AREA OF OUR WATER  
TREATMENT PLANTS.**

**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, lead and copper, total trihalomethanes, and haloacetic acids. 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 Dutchess County Health Department at (845) 486-3404.

<b>Table of Detected Contaminants</b>							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contamination
<b>Inorganics</b>							
Copper See Note 1	No	06/2011	0.0215 (0.0110-0.0586)	mg/l	1.3	AL = 1.3	Corrosion of household plumbing; erosion of natural deposits
Lead See Note 2	No	06/2011	0.0005 (ND-0.0005)	mg/l	0	AL = 0.015	Corrosion of household plumbing; erosion of natural deposits
<b>Disinfection Byproducts</b>							
Haloacetic Acids	No	07/2013	33	ug/l	N/A	MCL = 60	By-product of drinking water chlorination
Total Trihalomethanes	No	07/2013	41.6	ug/l	N/A	MCL = 80	By-product of drinking water chlorination

**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 copper values detected at your water system. The action level for copper was not exceeded at any of the sites tested.

2 – The level presented represents the 90th percentile of the ten samples collected. The action level for lead was not exceeded at any of the 10 sites tested.

## 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.

**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).

## 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.

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. CAMO Pollution Control, Inc. 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 2013, 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).

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## **CLOSING**

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## CITY OF BEACON WATER DEPARTMENT

470 Liberty Street, Beacon, New York 12508

Phone: (845) 831-3136 Fax: (845) 831-3185

James McCollum – Superintendent John Bushek – Chief Water Treatment Plant Operator

### 2013 ANNUAL WATER QUALITY REPORT

Public Water Supply ID # 1302760; 1330557

#### INTRODUCTION

To comply with State and Federal regulations, the city of Beacon Water Department issues an annual report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water, and your 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 standards. This report provides an overview of last years' 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 John Bushek, Chief Water Treatment Plant Operator at (845) 831-3185. We want you to be informed about your drinking water. Beacon City Council meetings are held the first and third Monday of the month at the Municipal Center – 1 Municipal Plaza, Beacon, NY.

#### WHERE DOES OUR WATER COME FROM?

In general, the sources of drinking water (both tap and bottle 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: microbiological contaminants; inorganic contaminants; pesticides & 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 and the FDA's regulations establish limits for contaminants in bottle water which must provide the same protection for public health.

Our water sources consists of three surface sources- Cargill, Mt. Beacon, and Melzingah reservoirs, and three ground water sources- City of Beacon wells 1 & 2 and Village of Fishkill well 8. The water from these sources is blended in various ratios depending on source condition and demand for water. The blended water is then treated at the water filtration facility located at 470 Liberty St. The current capacity of the plant is 4 million gallons per day. Our Average flow for 2013 was 2,223 Million gallons per day. Highest daily flow was 2.823 million gallons per day. Chemicals are added to the blended water to facilitate filtration. The water is then filtered and chemicals are added for disinfection and corrosion control. The water is then pumped to the distribution system entry point tank. The following chemicals, including their purpose and amounts, were used to treat our water in 2013: Alum-coagulant for filtration (91,173 lbs.); Polymer- coagulant aid (347 lbs.); Zinc Orthophosphate- corrosion control (9,689 lbs.); Chlorine- disinfection (13,639 lbs.).

The NYS DOH has completed a source water assessment for our water system, based on available information. Possible and actual threats to our drinking water sources 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. Please see the following table for a list of contaminants that were detected. The source water assessment provides resource managers with additional information for protecting source water into the future. The source water assessment has rated our water sources as having an elevated susceptibility to microbial, nitrate, industrial solvents and other industrial contaminants. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the State and/or Federal government), and the residential land use and related activities in the assessment area. In addition, the wells draw from fractured bedrock and the overlying soils may not provide adequate protection from potential contamination, and are located in an area that is prone to flooding. The county and state health departments will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, planning and education programs. A copy of the assessment can be obtained by contacting us, as noted above.

#### 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 & copper, volatile organic compounds, synthetic organic compounds, radioactive contaminants and disinfection byproducts.** The table presented below depicts which compounds were detected in your drinking water in 2013 and other years. 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 bottle water, maybe 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. 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 Dutchess County Health Department at (845) 486-3400.

#### DEFINITIONS

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCL are set as close to the MCLG's 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. MCLG allow for a margin of safety.

**Turbidity (NTU):** A measure of the cloudiness of water. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants.

**NTU's – Nephelometric Turbidity Units:** A measure of the clarity of water. Turbidity in excess of 5 NTU's is just noticeable to the average person.

**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.

*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.

*MRDL- Maximum Residual Disinfection Level:* A level of disinfectant added for water treatment that may not be exceeded at the consumers' tap without an unacceptable possibility of adverse health effects. MRDL's are currently regulated in the same manner as MCL's.

**TABLE OF DETECTED CONTAMINANTS**

**Microbiological Contaminant**

Contaminant	Violation	Date	Level	Unit Measured	Limit Type	Likely Source
Filtered Turbidity	No	Dec 2013	99.6%	Minimum Monthly %	> 95% TT	Soil Runoff
Filtered Turbidity	No	12/30/13	0.661	Maximum NTU	<5 MCL	Soil Runoff
Distribution Turbidity	No	12/5/13	1.00	Maximum NTU	<1 MCL	Soil Runoff

**Disinfection Byproducts**

Contaminant	Violation	Date of Sample	Level Detected Maximum Average	Unit Measured	MCLG	Limit MCL	Likely Source of Contaminant
Total Trihalomethanes	No	8/20/13 2013	69.30 40 <sub>μ</sub>	ug/L ug/L	n/a n/a	80	By product of drinking water Chlorination
Haloacetic Acid	No	8/20/13 2013	32.60 20 <sub>μ</sub>	ug/L ug/L	n/a n/a	60	By product of drinking water Chlorination

μ = Running Annual Avg.

### Inorganic Contaminants

Contaminant	Violation	Date of Sample	Level Detected Maximum	Unit Measured	MCLG	Limit MCL	Likely Source of Contaminant
Barium	No	8/20/13	.02	mg/L	2	2	Discharge of drilling waste discharge from metal refineries, erosion of natural deposits.
Chloride	No	9/17/13	45.3	mg/L	n/a	250	Road salt naturally occurring
Nitrate	No	6/18/13	0.25	mg/L	10	10	Runoff from fertilizer leaching from septic tanks
Sodium	No	9/17/13	18.1	mg/L	n/a	see Note 1	Road salt naturally occurring
Selenium	No	8/20/13	.0021	mg/L	n/a	0.05	Discharge of drilling waste discharge from metal refineries, erosion of natural deposits.

1 = Water containing more than 20mg/L of sodium should not be used for drinking by people on severely restricted sodium diet. Water containing more than 270 mg/L of sodium should not be used for drinking by people on moderately restricted diet.

### Corrosion Control

Contaminant	Violation	Date of Sample	Level Detected Maximum	Unit Measured	MCLG	Limit AL	Likely Source of Contaminant
Lead	No	2011	0.005 0.003 (3)	mg/L	0	0.015	Corrosion of Household plumbing system
Copper	No	2011	0.658 0.306 (3)	mg/L	0	1.3	Corrosion of Household plumbing system

3 = Represents the 90<sup>th</sup> percentile of 30 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 action level value for lead & copper was not exceeded at any sites.

## NON-DETECTED CONTAMINANTS

The contaminants listed below were required to be tested for, in our drinking water. The results showed that **none** of these contaminants were detected in our water. These Non-detected contaminants are: Arsenic, Beryllium, Cadmium, Chromium, Antimony, Thallium, Asbestos, Mercury, Fluoride, Cyanide, 1 1 1 2-Tetrachloroethane, 1 1 1-Trichloroethane, Bromobenzene, 1 1 2 2-Tetrachloroethane, 1 1 2-Trichloroethane, 1 1-Dichloroethane, 1 1-Dichloroethene, 1 1-Dichloropropene, Chlorobenzene, 1 2 3-Trichlorobenzene, 1 2 3-Trichloropropene, 1 2 4-Trichlorobenzene, 1 2 4-Trimethylbenzene, 1 2-Dichloroethane, Benzene, 1 2-Dichlorobenzene, 1 2-Dichloropropene, 1 3-Dichloropropene, 1 4-Dichlorobenzene, 2 2-Dichloropropene, Chloroethane, Bromochloromethane, Bromomethane, n-Butylbenzene, cis-1 2-Dichloroethene, cis-1 3-Dichloropropene, Tetrachloroethene, Carbon Tetrachloride, Chloromethane, Dibromomethane, Ethylbenzene, Butachlor, Dichlorodifluoromethane, Hexachlorobutadiene, Toluene, Isopropylbenzene, p-Isopropyltoluene, Diquat, Methylene, m-Xylene & p-Xylene, Methyl tert-butyl ether, o-Xylene, Vinyl chloride, trans-1 2-Dichloroethene, trans-1 3-Dichloropropene, Trichloroethene, tert-Butylbenzene, Trichlorofluoromethane, Styrene, Picloram, Total Xylenes, sec-Butylbenzene, 1 3 5-Trimethylbenzene, N-Propylbenzene, 1 3-Dichlorobenzene, Metolachlor, 2-Chlorotoluene, Endothall, 4-Chlorotoluene, 1 2-Dichloroethane, 1 2-Dibromo-3-chloropropane, Lindane, Heptachlor, Aldrin, Chlordane, Total PCB's, 2 4-D, Heptachlor epoxide, Dieldrin, Endrin, Methoxychlor, Toxaphene, Pentachlorophenol, 2 4 5-TP (Silvex), Aldicarb sulfoxide, Bis(2-Ethylhexyl)adipate, Alachlor, Metribuzin, Bis(2-Ethylhexyl)phthalate, Benzo(a)pyrene, 3-Hydroxycarbofuran, Dalapon, Dicamba, Dinoseb, Hexachlorocyclopentadiene, Hexachlorobenzene, Aldicarb sulfone, Oxamyl, Methomyl, Aldicarb, Carbonfuran, Carbaryl, Glyphosate, Propachlor, Simazine, and Atrazine, Nickel.

## 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. 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).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. City of Beacon 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 or at <http://www.epa.gov/safewater/lead>.

## 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 firefighting 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 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.

Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, and then check the meter after 15 minutes. If it moved, you have a leak.

### CLOSING

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