

Annual Drinking Water Quality Report for 2007
Taconic Estates Water District
Town of East Fishkill
Public Water Supply ID# 1302810

INTRODUCTION

To comply with State regulations, Taconic Estates 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. Trichloroethylene (TCE) was detected at both wells. Blending water from both supply wells to ensure the limit for trichloroethylene was not exceeded rectified this problem. 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 **Supervisor John Hickman, Jr. at (845) 221-4303 or Highway Superintendent Dennis Miller at (845) 221-2681**. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled town board meetings. The meetings are held throughout the year.

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, radiological 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 a total of 33 homes. Our water source is from two drilled wells that draw from an underground aquifer along the Fishkill/Sprout Creek drainage basin. The water is disinfected with chlorine (sodium hypochlorite) prior to distribution. The Taconic Estates Water District Facilities produced over 5.6 million gallons of water for distribution throughout the year in 2007, with an average daily production of 15,500 gallons.

The New York State Department of Health completed a source water assessment of the water supply in 2003. The source water assessment has rated our water source as having a potential susceptibility to microbial and nitrate contamination. These ratings are due primarily to the reported proximity of the wells to permitted discharge facilities (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. The full results of this report are available from the Town of East Fishkill or the Dutchess County Department of Health. For questions regarding this report, please contact the New York State Department of Health at (518) 402-7713.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: total coliform, inorganic compounds, nitrate and volatile 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 Department of Health at 845-486-3400.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Max)	Unit Measurement	MCLG	Regulatory Limit (MCL)	Likely Source of Contamination
Inorganics							
Nitrate	No	9/07	3.58	mg/l	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Barium	No	9/07	.022	mg/L	2.0	2.0	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Volatile Organic Contaminants							
Trichloroethylene ¹ (TCE)	No ¹	4/07 - 10/07	Average = 3.35 Maximum = 4.4 Range = 1.1-4.4	ug/l	0	5	Discharge from metal degreasing sites and other factories
Disinfection Byproducts							
Total Trihalomethanes (TTHM's)	No	9/07	14.1	ug/L	N/A	80	By-product of disinfection needed to kill harmful organisms.

Notes:

¹This level represents the annual quarterly average calculated from data collected. The maximum result of 4.8 µg/L was obtained from well #2. At the same time, a result of 1.9 µg/L was obtained from well #1, resulting in a blended concentration of 3.4 µg/L.

In order to address this situation, water is blended between the two wells so that the blended water concentration is kept below the EPA limit. We will continue to perform quarterly monitoring of the wells, in conformance with Dutchess County Department of Health requirements, to insure that these levels do not increase in the water supply and we will continue to report on these results to all customers.

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.

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

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

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

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

Micrograms per liter (ug/l): Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

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

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

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

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

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

WHAT DOES THIS INFORMATION MEAN?

The table shows that our system uncovered some problems this year. Specifically, the level of trichloroethylene was detected just below the EPA limit. This has been a historical problem for the water system for both wells, with levels typically detected around the EPA limit. Some people who drink water containing trichloroethylene in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer.

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IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

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

Lead and Copper Testing: According to our records, all water customers have water softeners installed. Based upon this, the Dutchess County Department of Health does not require monitoring of individual customers under the lead and copper rule established by Part 5 of the New York State Sanitary Code. If you do not currently use a water softener and wish to have the Town of East Fishkill perform lead and copper testing for you, please contact the East Fishkill Water Department at 221-2681.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly,

and infants can be particularly at risk from infections. These people should seek advice from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

WHY SAVE WATER AND HOW TO AVOID WASTING IT?

Although our system has an adequate amount of water to meet present and future demands, there are a number of reasons why it is important to conserve water:

- ◆ Saving water saves energy and some of the costs associated with both of these necessities of life;
- ◆ Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
- ◆ Saving water lessens the strain on the water system during a dry spell or drought, 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. We ask that all our customers help us protect our water sources, which are the heart of our community. Please call us if you have questions.