

Annual Drinking Water Quality Report for 2016
Village of Kinderhook Water Department
Kinderhook, New York 12106
(Public Water Supply ID#1000240)

To comply with State regulations, Village of Kinderhook Water Department 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 **Dale Leiser, Water Commissioner, or David Booth, DPW Superintendent and Chief Water Operator at (518) 758-9225**. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled village board meetings. The meetings are held on the second Wednesday of each month, 7:30 pm at the Village Hall.

WHERE DOES OUR WATER COME FROM?

In general, the sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activities. Contaminants that may be present in source water include: microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water system serves approximately 1300 persons through 613 service connections. Our water source is ground water from the Schodack Aquifer drawn from four wells ranging between 28 to 36 feet deep that are located on Hudson St. near the Kinderhook Creek. The water is treated with chlorine and Ortho Phosphate during distribution, only when the water pumps are operating. Please note that the fire hydrants will be flushed on **April 11th, 12th and 13th, 2017** during the day beginning at 9am.

We include here the summary statement provided by the Columbia County Health Department of the "Source Water Assessment: Kinderhook Village, NY 1000240 AWQR":

The New York State Department of Health has completed a source water assessment for this source, 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. While nitrates were detected in our water, it should be noted that all drinking water, including bottled drinking water poses a health risk. See section "Are there contaminants in our drinking water?" for a list of the contaminants that have been measured. The source water assessments provide resource managers with additional information for protecting source waters into the future.

As mentioned before, our water is derived from four drilled wells. The source water assessment has rated these wells as having high to very high susceptibility to microbial, industrial solvents, nitrates and other industrial contaminants. All four drilled wells have detection of nitrates, at levels consistent with a high chemical sensitivity. The area is prone to flooding. Please note that our water is disinfected to ensure that the finished water delivered into your homes meet the New York State's drinking water standards for microbial contamination.

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, including a map of the assessment area, can be obtained by contacting us, as noted below.

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, lead and copper, volatile organic compounds, total trihalomethanes, and synthetic organic compounds.

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 Columbia County Health Department at 518-828-3358, extension 3358.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max Range)	Unit Measurement	MCLG Goal	Regulatory Limit (MCL) Maximum	Likely Source of Contamination
Nitrate Well #1	No	12/5/16	2.0	mg/l	10	10 mcl	Erosion of natural deposits
Nitrate Well #2	No	12/5/16	3.2	mg/l	10	10 mcl	Erosion of natural deposits
Perfluorooctanoic acid (PFOA)	No	3/23/16	<0.00067	Ug/L	n/a	n/a	Percolation into ground
Barium	No	1/8/15	0.116	mg/l	2	2 mcl	Erosion of Natural deposits
Lead	No	09/22/14	<0.001	mg/l	0	AL = 15	Erosion of Natural deposits
Copper	No	09/22/14	.020	mg/l	1.3	AL = 1.3	Erosion of natural deposits
Fluoride	No	12/22/14	<0.20	mg/l	2.2	2.2 mg/l	Erosion of natural deposits
Antimony	No	1/8/15	<0.001	mg/l	0.006	0.006 mg/l	Erosion of natural deposits
Arsenic	No	1/2/15	<0.0005	mg/l	0.010	0.010 mg/l	Erosion of natural deposits
Beryllium	No	1/7/15	<0.0002	mg/l	0.004	0.004 mg/l	Erosion of natural deposits
Cadmium	No	1/7/15	<0.0005	mg/l	0.01	0.01 mg/l	Erosion of natural deposits
Chromium	No	1/7/15	<0.001	mg/l	0.05	0.05 mg/l	Erosion of natural deposits
Mercury	No	1/7/15	<0.0002	mg/l	0.0020	0.0020 mg/l	Erosion of natural deposits
Nickel	No	1/2/15	<0.02	mg/l	0.1	0.1 mg/l	Erosion of natural deposits
Selenium	No	1/13/15	<0.002	mg/l	0.050	0.050 mg/l	Erosion of natural deposits
Thallium	No	1/8/15	<0.001	mg/l	0.002	0.002 mg/l	Erosion of natural deposits
Cyanide, Total	No	12/31/14	<0.01	mg/l	0.2	0.2 mg/l	Erosion of natural deposits

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.

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.

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).

Proactive testing?

In light of recent local events the village has tested for PFOA (Perfluorooctanoic Acid) to ensure that we maintain the highest quality water possible. When the results are made available they will be posted on our village website at www.villageofkinderhook.org.

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 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 our office at 518-758-9882 if you have questions.

Village of Kinderhook Board of Trustees