

Annual Drinking Water Quality Report for 2017
Redford Water District
PO Box 147
Saranac, NY 12981
(Public Water Supply ID#NY0900222)

INTRODUCTION

To comply with State regulations, Redford 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. 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 Martha Chase, Water Treatment Plant Operator, (518) 735-4666; or Nick Carter, Town Supervisor at (518) 293-6666. 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 on the 4th Monday of each month at the Saranac Town 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 that 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. For additional information about our water system, please see the attached Source Water Assessment prepared by the New York State Department of Health.

Our water system serves about 500 people through 163 service connections. Our water comes from two drilled deep wells located off of Spruce Street. The water is chlorinated prior to distribution.

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, Nitrate, Lead and Copper, Disinfection By-products (Total trihalomethanes and Haloacetic Acids), Gross Alpha Particle Activity, Primary Inorganic Chemicals, Principal Organic Chemicals, Synthetic Organic Chemicals, and Radium 226 and 228. 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 Clinton County Health Department at (518) 565-4870

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date sampled	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Copper (1)	No	8/21/17	90 th = 0.315 Range: 0.040 to 0.35	mg/l	1.3	AL=1.3	Corrosion of household plumbing, erosion of natural deposits
Barium	No	5/30/17	2.0	µg/l	2000	MCL=2000	Discharge from drilling waste, erosion of natural deposits
Total Trihalomethanes (TTHM)	No	9/18/17	Maplefields=18.7	µg/l	N/A	MCL=80	By-product of drinking water chlorination needed to kill harmful organisms
Total Haloacetic Acids (HAA5)	No	9/18/17	Maplefields=5.2	µg/l	N/A	MCL=60	By-product of drinking water disinfection needed to kill harmful organisms
Lead (2) (3)	No	8/21/17	90 th =6.5 Range BRL to 10.7	µg/l	N/A	AL=15	Corrosion of household plumbing, erosion of natural deposits
Nitrate	No	9/25/17	0.08	mg/l	10	10	Runoff from fertilizer use, leaching from septic tanks
Chloroform	No	5/30/17	20	µg/l	N/A	80	By-product of drinking water disinfection
Bromodichloromethane	No	5/30/17	1.8	µg/l	N/A	80	By-product of drinking water disinfection
Radiological Contaminants							
Gross Alpha Particles	No	8/21/17	0.037	pCi/l	N/A	15	Erosion of natural deposits
Combined Radium -226 and 228 (4)	No	8/21/17	0.808	pCi/l	N/A	5 (4)	Erosion of natural deposits

Notes:

1 – The level presented for copper represents the 90th percentile of the 5 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. In this case, the 90th percentile is equal to the average of the first and second highest sample result. The action level for copper was not exceeded at any of the sites tested.

2 - The level presented for lead represents the 90th percentile of the five sites tested. The 90th percentile is equal to or greater than 90% of the lead values detected at our water system. The action level for lead was not exceeded at any of the sites tested. All sites tested below reportable limits.

3 - See the “What does this information mean?” section of this report for additional information.

4 – MCL is for combined radium 226 and 228.

Definitions:

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

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

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

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

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

Micrograms per liter (µg/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 presented we had no MCL violations. We have learned through our testing that some other contaminants have been detected; however, these contaminants were detected below the level allowed by the State.

We are required to present the following information about 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. Redford Water district 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?

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 2017 Redford WD collected all required water samples. Our Water District remains out of compliance for not implementing the Town's Cross Connection Control Plan. As you should be aware, the Town is working with an Engineering firm for the completion of a Preliminary Engineering Report to develop a project to upgrade our water system.

Source Water Assessments Program (SWAP) Summary for AWQR:

The NYS DOH 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 section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected. 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 two drilled wells. The wells were rated as having a medium-high susceptibility to enteric bacteria, halogenated solvents, herbicides/pesticides, metals, nitrates, petroleum products, protozoa, and other industrial organics. These ratings were given because the wells draw from fractured bedrock and the overlying soils do not provide adequate protection from potential contamination. Please note that, while the source water assessment rates our well as being susceptible to microbials, our water is disinfected to ensure that the finished water delivered into your home meets the New York State drinking water standards for microbial contamination. A copy of this assessment, including a map of the assessment area, can be obtained by contacting us, as noted.

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 up and you can save almost 6,000 gallons per year.
- ♦ Check your toilets for leaks by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and you save more than 30,000 gallons a year.