

Consumer Confidence Report - 2017

Gunstock Acres Village Water District

PWS ID# 0881020



Go to: www.epa.gov/watersense

Introduction

Like any responsible public water system, our mission is to deliver the best-quality drinking water and reliable service at the lowest, appropriate cost. Aging infrastructure presents challenges to drinking water safety, and continuous improvement is needed to maintain the quality of life we desire for today and for the future. On-going operation and maintenance costs are supported by annual flat rate availability and user charges plus a precinct charge on the real estate tax bills.

What is a Consumer Confidence Report?

The Consumer Confidence Report (CCR) details the quality of your drinking water, where it comes from, and where you can get more information. This annual report documents all detected primary and secondary drinking water parameters, and compares them to their respective standards known as Maximum Contaminant Levels (MCLs).

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 activity.

Contaminants that may be present in source water include:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The United States Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

What is the source of my drinking water?

Gunstock Acres has 10 active wells, 4 of which are bedrock wells located at the lower end of Mountain Drive. These 4 produce 10 - 34 gpm each and range from 140 ft. to 1000 ft. in depth. There are 5 bedrock wells off Leisure Drive. These five produce approx. 200 gpm and are about 515 ft. in depth. The other well is at the lower corner of Silver Street and Yasmin Drive. It is a 12-ft diameter dug well approx. 18 ft. deep producing approx. 15 gpm.

Why are there contaminants in my water?

Drinking water, including bottled water, may reasonably be 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

NOW IT COMES WITH A
LIST OF INGREDIENTS.



information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 about drinking water from the health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Source Water Assessment Summary

New Hampshire Department of Environmental Services prepared drinking water source assessment reports for all public water systems between 2000 and 2003 in an effort to assess the vulnerability of each of the state's public water supply sources. Included in the report is a map of each source water protection area, a list of potential and known contamination sources, and a summary of available protection options. The results of the assessment, prepared on May 8, 2001, are as follows:

For all four wells being used at Mountain Drive, 2 susceptibility factors were rated high, 4 were rated medium, and 6 were rated low.

For the two wells at Leisure Dr., 1 susceptibility factor was rated high, 3 were rated medium, and 8 were rated low.

For the dug well on Silver St., 2 susceptibility factors were rated high, 2 were rated medium, and 8 were rated low.

Note: This information is over ten years old and includes information that was current at the time the report was completed. Therefore, some of the ratings might be different if updated to reflect current information. At the present time, DES has no plans to update this data.

The complete Assessment Report is available for inspection at the New England Service Company office.

For more information, visit the NH DES website at:

<http://des.nh.gov/organization/divisions/water/dwgb/dwsp/dwsap.htm>.

How can I get involved?

The water commissioners hold monthly meetings. Your attendance is welcome at these meetings. The annual meeting is held each spring at the Gilford Town Hall. If you have any questions about this report, please call your water system's certified water operator, Alex Crawshaw of New England Service Company, at (603) 293-8580.

Violations and Other Information:

There were two violations in 2016. One was for the reporting of the TTHM & HAA5 testing, not being done in the 2nd quarter. The test was done in quarter 3 and was returned to being in compliance on November 14th. The second violation was for exceeding the Secondary Fluoride Maximum Contaminant Level, but not the Maximum Contaminant Level for both 3rd and 4th quarter reporting. Please see the last page of this report regarding important information for the Fluoride violation.

In the fall of 2015, Gunstock Acres Village Water District and New England Service Company began plans to replace 3,300 feet of main on Mountain Drive. The work begun during the Spring of 2016 and was completed on time. This project's intent was not only replacing the water system's aging infrastructure proactively but also to reduce the number of water main breaks due to the freeze/thaw cycle experienced each winter. Similarly, due to an emergency, a similar project was started and completed on Oakland Drive where 1000 feet of water main was replaced.

Definitions:

MCLG: Maximum Contaminant Level Goal, or 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.

MCL: Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. They are set as close to the MCLGs as feasible using the best available treatment technology.

AL: Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

TT: Treatment Technique, or a required process to reduce the level of a contaminant in drinking water.

MRDLG: Maximum residual disinfectant level goal or the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

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

Abbreviations:

ppm: parts per million

nd: not detectable at testing limits

pCi/L: pico curies per liter

ppb: parts per billion

N/A: Not Applicable

BDL: Below Detection Limit

Sample Dates: The State of NH allows water systems to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. The results for detected contaminants listed below are from the most recent monitoring done in compliance with regulations ending with the year 2016.

DETECTED WATER QUALITY RESULTS

<i>Contaminants (Units)</i>	<i>Level Detected Violation Yes or No</i>	<i>MCL</i>	<i>MC LG</i>	<i>Likely Source of Contamination</i>	<i>Health Effects</i>
Compliance Gross Alpha (pCi/L)	3.3; 5.5 11/19/14 No	15	0		Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.
Uranium (ppb)	1.7; 0.4 11/26/14 No	30	0	Erosion of natural deposits	Some people who drink water containing uranium in excess of the MCL over many years may have an increased risk of getting cancer and kidney toxicity.
Combined Radium (pCi/L)	0.6; 0.5 12/10/14 No	5	0	Erosion of natural deposits	Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.
Arsenic (ppb)	4.25 2016 average Range: 3-7 No	10	0	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes	While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.
Barium (ppm)	0.002 11/16/16 No	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.
Copper (ppm)	0.01 11/16/16	AL=1.3	1.3	Corrosion of household	Copper is an essential nutrient, but some people who drink water containing copper in excess of

	No			plumbing systems; erosion of natural deposits; leaching from wood preservatives	the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.
Fluoride (ppm)	1.37 2016 average Range: 0.49 – 2.3 No	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling, also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.
Lead (ppb)	0 April 2015 No	AL=15	0	Corrosion of household plumbing systems, erosion of natural deposits	Infants and young children are typically more vulnerable to lead in drinking water than the general population. 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. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).
Mercury (inorganic) (ppb)	.0003 11/16/16 No	2	2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland	Some people who drink water containing inorganic mercury well in excess of the MCL over many years could experience kidney damage.
Nitrate (ppm)	0 11/16/16 No	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than 6 months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

NOTICE OF SECONDARY FLUORIDE MAXIMUM CONTAMINANT LEVEL (MCL) VIOLATION

This is an alert about your drinking water and a cosmetic dental problem that might affect children under 9 years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2.0 milligrams per liter (mg/L) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by your water system, Gunstock Acres Village Water District has a fluoride concentration of 2.2 mg/L.
(name of water system) (fluoride level)

What does this mean?

Fluoride contamination is rarely due to human activity. Fluoride occurs naturally in some areas and is found in elevated concentrations in the aquifer in our source water.

This is not an emergency. If it had been, you would have been notified immediately. However, *dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.*

Drinking water containing more than 4.0 mg/L of fluoride (the U.S. Environmental Protection Agency's drinking water standard) can increase your risk of developing bone disease. Your drinking water does not contain more than 4.0 mg/L of fluoride, but we are required to notify you when we discover that fluoride levels in your drinking water exceed 2.0 mg/L because of this cosmetic dental problem.

What should I do?

Children under the age of nine should use an alternative source of water that is low in fluoride. In addition, you may want to consult your dentist about whether to avoid dental products containing fluoride. Adults and children over age nine should consult their dentist or doctor and show him/her this notice to determine if an alternate source of water low in fluoride should be used. General health related questions may be directed to Dave Gordon of the DES Environmental Health Program at (603) 271-4608.

Steps We Are Taking: We are continuing to monitor fluoride levels. We will inform you if levels exceed the limit of 4.0 mg/L.

For more information, please contact Alex Crawshaw of New England Service Company
(name of water system contact) (system or company)

at 603-293-8580 or 32 Artisan Court #2, Gilford, NH 03249.
(telephone #) (address)

Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8-NSF-HELP.

Please share this information with all the other people who have children who drink this water, especially those who may not have received this notice directly (for example, people in apartments, schools, and daycares). You can do this by posting this notice in a public place or distributing copies by hand or mail.

PWS ID: 0881020 Date distributed: 05/12/17