2019 Consumer Confidence Report

Town of Sunapee Water Department PWS # 2271010 & PWS # 2271020

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.

In 2019, we replaced a hydrant and installed a new gate valve near the Sunapee Harbor Restrooms, replaced 1.000 feet of summer water line and cleaned and inspected the water storage tanks. We are working with Engineers to design and implement an Ultraviolet disinfection system to alleviate some of the disinfection by-product issues that have been plaguing the system for the last couple of years. We have completed creating an asset management plan for the water systems that will help prioritize items to be replaced within the systems and are beginning to learn how to input new information into the system maps as repairs and replacements are done. In 2020 we are planning to be fully up and running with the new Ultraviolet disinfection system thereby bringing the system back into compliance with the TTHM limits. We also are planning to replace two hydrants, another 800 or so feet of summer water line and clean the concrete water storage tank on Harbor Hill.

These new investments along with on-going operation and maintenance costs are supported solely by water user fees. When considering the high value we place on water, it is truly a bargain to have water service that protects public health, fights fires, supports businesses and the economy, and provides us with the high-quality of life we enjoy.

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 sec-

ondary 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 byproducts 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 naturallyoccurring 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 US 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?

The Sunapee water systems source is surface water from Lake Sunapee. The water intake pipe is about 35 feet below the surface and is located in Sunapee Harbor. The water is filtered in the Slow Sand Filter Plant located on Harbor Hill and is treated with Soda Ash to raise the pH and disinfected with chlorine.

The Georges Mills water system source is ground water from two bedrock wells located on Pleasant Street. The water is aerated to remove radon, treated to prevent corrosion and disinfected with chlorine.

Why are 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 information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 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. 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 about drinking water from their 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 at 1-800-426-4791.

Source Water Assessment Summary

DES 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 10/24/2002, are noted below.

• For Lake Sunapee, no susceptibility factors were rated high, 4 were rated medium, and 8 were rated low.

• For Georges Mills Water Works, no susceptibility factors were rated high, 2 were rated medium, and 10 were rated low.

Note: This information is over thirteen 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 review at the Sunapee Water & Sewer Department office located at 23 Edgemont Road. For more information, call David Bailey-Water and Sewer Superintendent at 603-763-2115, or visit the DES Drinking Water Source Assessment website at http://des.nh.gov/organization/divisions/water/dwgb/dwspp/dwsap.htm.

How can I get involved?

For more information about your drinking water, please call David Bailey, Sunapee Water and Sewer Superintendent, at 603-763-2115, 8:00 AM to 4:00 PM Monday – Friday. The Water and Sewer Office is located in the Town Hall at 23 Edgemont Road. The Water and Sewer Commission meets the last Thursday of each month, unless otherwise posted. Meeting notices are posted in the Town Hall, on the Town Web Site, in the Abbott Library and in the Sunapee Post Office.

Violations and Other information: Sunapee violated the yearly running average for TTHM's all four quarters of 2019.

Definitions

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

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

Maximum Contaminant Level Goal or 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.

Abbreviations

BDL: Below Detection Limit mg/L: milligrams per Liter NA: Not Applicable ND: Not Detectable at testing limits NTU: Nephelometric Turbidity Unit ppb: parts per billion ppm: parts per million RAA: Running Annual Average TTHM: Total Trihalomethanes

Drinking Water Contaminants:

Lead: 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. This water system is responsible for high quality drinking water, but we can't control the variety of materials used in your plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing cold water from your tap for at least 30 seconds before using water for drinking or cooking. Do not use hot water for drinking and 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://water.epa.gov/drink/info/lead/index.cfm



TOWN OF SUNAPEE WATER DEPARTMENT PWS ID: 2271010

2020 Report (2019 data)

	LEAD AND COPPER											
Contaminant (Units)	Action Level	90 th percentile sample value *	Date	# of sites above AL	Violation Yes/No	Likely Source of Contamination	Health Effects of Contaminant					
Copper (ppm)	1.3	.088	11/21/19	0	NO	Corrosion of house- hold plumbing sys- tems; erosion of natu- ral deposits; leaching from wood preserva- tives	Copper is an essential nutrient, but some people who drink water containing copper in excess of 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.					
Lead (ppb)	15	5	11/21/19	0	NO	Corrosion of house- hold plumbing sys- tems, erosion of natu- ral deposits	 (15 ppb in more than 5%) 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). (above 15 ppb) 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. 					

	DETECTED WATER QUALITY RESULTS									
Contaminant (Units)	Level Detected	MCL	MCLG	Violation YES/NO	Likely Source of Contamination	Health Effects of Contaminant				
Radioactive Cont	Radioactive Contaminants * Represents 2015 Test Results									
Compliance Gross Alpha (pCi/L)	.3*	15	0	NO	Erosion of natural de- posits	Certain minerals are radioactive and may emit a form of radiation know as alpha radia- tion. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.				
Combined Radium 226 + 228 (pCi/L)	.3*	5	0	NO	Erosion of natural de- posits	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.				

Microbiological C	Contaminants					
<u>Coliform and</u> <u>E. coli</u> Bacteria	No samples tested positive.	0	0	NO	Human and animal fe- cal waste	<u><i>E. coli</i></u> are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems.
Turbidity (NTU) RAA Turbidity is a measure of the cloudiness of the water, and is used because it is a good indicator of how well the filtration treat- ment process is functioning.	.051	TT	N/A	NO	Soil runoff	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.
Inorganic Contan	ninants					
Barium (ppm)	.011	2	2	NO	Discharge of drilling wastes; discharge from metal refineries; ero-	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.
Synthetic Organie	c Contaminants in	ncluding P	esticides a	nd Herbicio	sion of natural deposits les * Represents 2018 Re	sults
Glyphosate (ppb)	4.2*	700	700	NO	Runoff from herbi- cide use	Some people who drink water containing glyphosate in excess of the MCL over many ye could experience problems with their kidneys or reproductive difficulties.
Volatile Organic	Contaminants					
Haloacetic Acids (HAA) (ppb) RAA	45.93	60	NA	NO	By-product of drinking water disinfection	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
Total Trihalome- thanes (TTHM) (Bromodichloro- methane Bromoform Dibromomethane Chloroform) (ppb) RAA	90.95	100/80	NA	YES	By-product of drinking water chlorination	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous sys- tems, and may have an increased risk of getting cancer.
Additional Testin	g					
Sodium	24				Action Level 100-250	We are required to regularly sample for sodium



Georges Mills Water PWS ID: 2271020

2020 Report (2019 data)

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Contaminant (Units)	Action Level	90 th percentile sample value *	Date	# of sites above AL	Violation Yes/No	Likely Source of Contamination	Health Effects of Contaminant
Copper (ppm)	1.3	.14	9/18/17	0	NO	Corrosion of house- hold plumbing sys- tems; erosion of natu- ral deposits; leaching from wood preserva- tives	Copper is an essential nutrient, but some people who drink water containing copper in excess of 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.
Lead (ppm)	15	7	9/18/17	0	NO	Corrosion of house- hold plumbing sys- tems, erosion of natu- ral deposits	 (15 ppb in more than 5%) 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). (above 15 ppb) 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.

	DETECTED WATER QUALITY RESULTS									
Contaminant (Units)	Level Detected*	MCL	MCLG	Violation YES/NO	Likely Source of Contamination	Health Effects of Contaminant				
Microbiological C	Microbiological Contaminants									
Coliform and <u>E. coli</u> Bacteria	No Samples tested positive.	0	0	NO	Human and animal fe- cal waste	<u><i>E. coli</i></u> are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems.				

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Radioactive Cont	aminants * Repre	esents 201	8 Results #	# Represent	ts 2015 Test Results	
Compliance Gross Alpha (pCi/L)	10.4*	15	0	NO	Erosion of natural de- posits	Certain minerals are radioactive and may emit a form of radiation know as alpha radia- tion. 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 (ug/L)	14*	30	0	NO	Erosion of natural de- posits	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 226 + 228 (pCi/L)	1.3 #	5	0	NO	Erosion of natural de- posits	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.
Inorganic Contan	ninants * Represe	ents 2018 I	Results	I		
Barium (ppm)	.015*	2	2	NO	Discharge of drilling wastes; discharge from metal refineries; ero- sion 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.
Fluoride (ppm)	.48*	4	4	NO	Erosion of natural de- posits; water additive which promotes strong teeth; discharge from fertilizer and alumi- num 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.
Volatile Organic	Contaminants		<u>+</u>	<u> </u>		
Haloacetic Acids (HAA) (ppb)	None Detected	60	NA	NO	By-product of drinking water disinfection	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
Total Trihalome- thanes (TTHM) (Bromodichloro- methane Bromoform Dibromomethane Chloroform) (ppb)	6.21	100/80	NA	NO	By-product of drinking water chlorination	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous sys- tems, and may have an increased risk of getting cancer.
Secondary Conta	minants * Repres	ents 2018	Results		SMCL	Specific Contaminant Criteria and Reason for Monitoring
Sodium (ppm)	13*	250	250	NO	Action Level 100-250	We are required to regularly sample for sodium
Zinc (ppm)	.10	5	5	NO	5	Galvanized Pipes