



ABENAKI
Water Company

An Aquarion Company

— **2022** —

WATER QUALITY REPORT

Water: it's too precious to waste

IN THIS REPORT

3-5 Water Quality Table

6-7 Your Health Is Our Priority

8 Lead in Drinking Water:
The Facts

9 Conservation
How you can get involved

GILFORD VILLAGE SYSTEM

PWS ID#: 0881010

Este informe contiene información importante sobre su agua potable. Pida a alguien que lo traduzca para usted, o hable con alguien que lo entienda.

LETTER FROM THE VICE PRESIDENT



John Walsh
Vice President, Operations

Dear Abenaki Customer:

I have the pleasure of reporting that Abenaki Water Company continued its delivery of high-quality water to our customers in 2022. We met or exceeded all state and federal water quality standards in your water system, as measured by the 710 tests we conducted throughout the year. This includes tests for perfluoroalkyl and polyfluoroalkyl (PFAS), substances that, in high concentrations, can cause serious health effects. You can find our 2022 PFAS updates and test results at aquarionwater.com/abenaki/pfas.

Last summer brought drought back to much of the state, but irrigation schedules helped to maintain adequate water supplies, as did invaluable help from customers everywhere who not only reduced outdoor water use, but also fixed leaks and took other vital conservation measures. Thank you for all you do to avoid wasting water — our most precious resource. For more ideas on what you can do to conserve water, please see page 8 in this report or visit aquarionwater.com/abenaki/consERVE.

With Appreciation,



John Walsh



Questions About Your Water Quality Report?

Customers who have questions about water quality should call us at **800-732-9678**.

For discolored water, service problems or after-hours emergencies, call **800-732-9678**.

Customers may also email us at waterquality@aquarionwater.com, or visit www.aquarionwater.com/abenaki.

New Hampshire Department of Environmental Services:
603-271-3503 or des.state.nh.us.

U.S. Environmental Protection Agency's Safe Drinking Water Hotline:
800-426-4791 or www.epa.gov/safewater.

What is a Water Quality Report?

Abenaki Water Company's annual Water Quality Report, also known as the Consumer Confidence Report (CCR), details the quality of your drinking water, where it comes from, and how to get more information. This annual report documents all detected primary and secondary drinking water contaminants and their respective standards known as Maximum Contaminant Levels (MCLs).

WATER QUALITY TABLE

Your water has been tested for more than 100 compounds that are important to public health. Only those compounds detected, all of which were below the amounts allowed by state and federal law, are reported in this table. Most of these compounds are either naturally occurring or introduced as treatment to

improve water quality. Monitoring frequency varies from daily to once every nine years per EPA regulation, depending on the parameter. Our testing encompasses the full range of regulated inorganic, organic and radiological compounds and microbiological and physical parameters.

Substance (Units of Measure)	Action Level(AL)	90th percentile sample value *	Date	# of sites above AL	Violation Yes/No	Likely Source of Contamination
LEAD AND COPPER						
Copper (ppm)	1.3	0.15*	January 2021	0 out of 5	NO	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (ppb)	15	1**	January 2021	0 out of 5	NO	Corrosion of household plumbing systems, erosion of natural deposits

DETECTED WATER QUALITY RESULTS

Substance (Units of Measure)	Level Detected* Average	Level Detected* Range	Date	MCL	MCLG	Violation Yes/No	Likely Source of Contamination
INORGANIC SUBSTANCES							
Arsenic (ppb)	4.7	2 - 13	2/7/2022, 4/4/2022, 8/17/2022, 12/28/2022	5	0	NO	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	0.105	0.105	8/17/2022	2	2	NO	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chlorine (ppm)	0.56	0.40 - 0.80	Quarterly, 2022	MRDL = 4	MRDLG = 4	NO	Water additive used to control microbes
Fluoride (ppm)	0.77	0.77	8/17/2022	4	4	NO	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Selenium (ppb)	2	2	8/17/2022	50	50	NO	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines

Continued on page 4

WATER QUALITY TABLE Continued from page 3

Substance (Units of Measure)	Level Detected* Average	Level Detected* Range	Date	MCL	MCLG	Violation Yes/No	Likely Source of Contamination
VOLATILE ORGANIC COMPOUNDS							
Haloacetic Acids 5 (HAA) (ppb)	1	0 - 2	4/4/2022, 5/9/2022	60	NA	NO	By-product of drinking water chlorination
Total Trihalomethanes (TTHM) (ppb)	7	4 - 9	4/4/2022, 5/9/2022	80	NA	NO	By-product of drinking water chlorination
RADIOACTIVE SUBSTANCES							
Combined Radium-226 & Radium-228 (pCi/L)	2.7	1.8 - 3.9	2/7/2022, 4/4/2022, 8/17/2022, 12/28/2022	5	0	NO	Erosion of natural deposits
Gross Alpha (pCi/L)	4.9	4.9	8/17/2022	15	0	NO	Erosion of natural deposits

Continued on page 5

WATER QUALITY TABLE Continued from page 4

Secondary MCLs (SMCL)	Level Detected* Average	Level Detected* Range	Date	Treatment technique (if any)	SMCL	50% Ambient Groundwater Quality Standard	Ambient Groundwater Quality Standard	Specific Criteria and Reason for Monitoring
SECONDARY CONTAMINANTS								
Chloride (ppm)	222	222	8/17/2022		250	N/A	N/A	Wastewater, road salt, water softeners, corrosion
Manganese (ppm)	0.3	0.3	8/17/2022		0.05	0.15	0.3	Geological
Sodium (ppm)	87	87	8/17/2022		100 - 250	N/A	N/A	We are required to regularly sample for sodium
Sulfate (ppm)	3	3	8/17/2022		250	250	250	Naturally occurring
Zinc (ppm)	0.01	0.01	8/17/2022		5	N/A	N/A	Galvanized pipes

Footnotes and Definitions

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

Ambient Groundwater Quality Standards means maximum concentration levels for regulated contaminants in groundwater which result from human operations or activities.

MCL Maximum Contaminant Level: 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.

MCLG Maximum Contaminant Level Goal: 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.

MRDL Maximum Residual Disinfectant Level: 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.

MRDLG Maximum Residual Disinfectant Level Goal: 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.

NA Not Applicable

pCi/L Picocuries per liter

ppb parts per billion, or micrograms per liter (ug/L)

ppm parts per million, or milligrams per liter (mg/L)

ppt parts per trillion, or nanograms per liter (ng/L)

SMCL Secondary Maximum Contaminant Level

* 90th percentile value in copper monitoring. Result is representative of customer sampling stagnant water. No locations exceeded the action level for copper.

** 90th percentile value in lead monitoring. Result is representative of customer sampling stagnant water. No locations exceeded the action level for lead.

HEALTH EFFECTS

Arsenic: 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.

Sodium: Sodium-sensitive individuals such as those experiencing hypertension, kidney failure, or congestive heart failure, who drink water containing sodium should be aware of levels where exposures are being carefully controlled.

YOUR HEALTH IS OUR PRIORITY

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 EPA's Safe Drinking Water Hotline [800-426-4791](tel:800-426-4791).

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 stormwater runoff, and residential uses.
- Organic chemical contaminants, including per- and polyfluoroalkyl substances, 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 prescribe 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.



Where Does Your Water Come From?

Gilford Village System obtains its water from three bedrock wells. It is treated and then delivered to you through an underground piping system. The water supply serves about 80 residents. In 2022, our wells supplied an average of 4,000 gallons of water per day.

How Is Your Water Treated?

Water from the wells is naturally filtered ground water. Water passes through two aerators followed by three birm/calcite vessels for iron and manganese removal. The water is then disinfected before it is delivered to the distribution system.

Source Water Assessment Report

The New Hampshire Department of Environmental Services (NHDES) 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 in 2001, are noted below.

The state Department of Environmental Service's Source Water Assessment Report indicates Bedrock Well #3 received 3 high susceptibility ratings, 3 medium susceptibility ratings, and 6 low susceptibility ratings. Bedrock Well #4 received 3 high susceptibility ratings, 3 medium susceptibility ratings, and 6 low susceptibility ratings.

The complete Assessment Report is available for inspection at the NH DES's Drinking Water Source Assessment Program web site at www.des.state.nh.us/dwspp/dwsap.htm.

YOUR HEALTH IS OUR PRIORITY

Copper

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level* over a relatively short period 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. Major sources of copper in drinking water include corrosion of household plumbing systems and erosion of natural deposits.

Arsenic

While your drinking water meets the federal Environmental Protection Agency's (EPA's) standard for arsenic, some of Abenaki's wells do contain low levels of this element. Testing shows that these levels are less than the health standards set by the EPA and the New Hampshire Department of Environmental Services. Dilution in the distribution system with water from other wells further lowers arsenic concentrations at water taps. Arsenic is a naturally occurring element in the Earth's crust, found in soil and rocks, which can enter ground water that comes in contact with these deposits. The EPA's standard

balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The agency continues to research the health effects of arsenic, which is known to cause cancer in humans at higher concentrations and is linked to other health effects such as skin damage and circulatory problems. Additional information can be found at [epa.gov/safewater/arsenic](https://www.epa.gov/safewater/arsenic).

Immuno-Compromised People

Some people may be more vulnerable to contaminants in drinking water than the general population.

Immuno-compromised people such as those with cancer undergoing chemotherapy, people 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. The Environmental Protection Agency and Centers for Disease Control and Prevention (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 [800-426-4791](tel:800-426-4791).

This system was tested for the four PFAS compounds with MCLs in NH, but none were detected in 2022.



LEAD IN DRINKING WATER: THE FACTS

The EPA and NHDES have established extensive regulations for water utilities to follow regarding lead. If lead is present in drinking water, it can cause numerous harmful effects on a person's health. The EPA has determined there is no safe level of lead.

Abenaki maintains a regular schedule for lead monitoring.

Learning About Lead

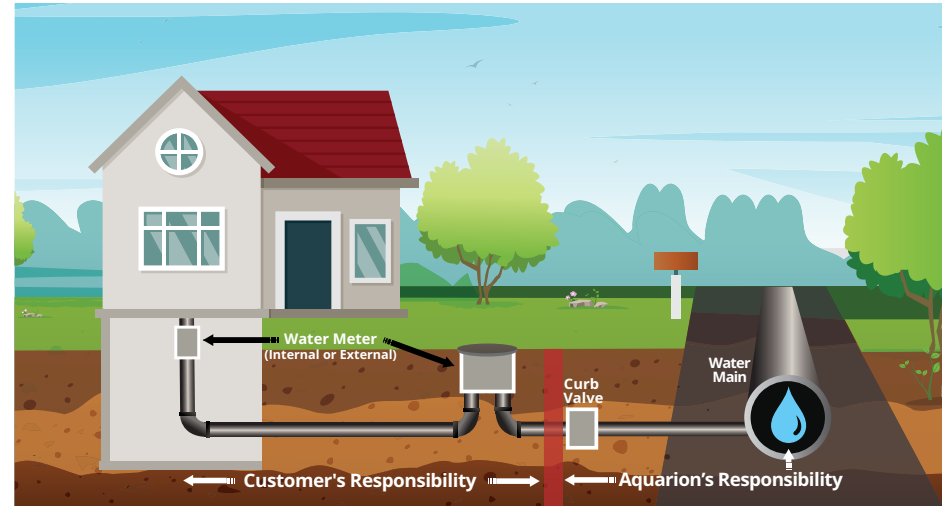
If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water system is responsible for high quality drinking water but cannot 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 at [800-426-4791](tel:800-426-4791) or at www.epa.gov/ground-water-and-drinking-water.

What to do About Lead in a Service Line

A service line is the pipe that connects a customer's premises to Abenaki's water main in the street (see illustration above). Homes built before 1986 may have lead service lines (with a few exceptions, most were installed in homes built before 1930), and those built before 1986 may have lead solder and brass fittings (which may have a lead content).

A lead service line can be the primary source of lead in your drinking water, because there is a much greater surface area where lead contacts the



Customer and Abenaki responsibilities shown are representative for most customers.

water, compared to lead-soldered pipe joints and leaded brass fixtures. If your house or other structure was built prior to 1988, you should check the service line where it enters the wall of your basement to see if it is made of lead. If it is a lead line, contact Abenaki at [800-732-9678](tel:800-732-9678) for advice on replacing it. This will help reduce your potential exposure to lead in drinking water.

Abenaki offers more detailed information on lead in drinking water and how to minimize exposure on our website at www.aquarionwater.com/abenaki/learnaboutlead.

CONSERVATION

Conservation

By reducing water consumption, Abenaki customers have made outstanding progress in ensuring that our area has enough water, no matter what the skies deliver. Many thanks to all the customers who cut back on outdoor sprinkler irrigation and other uses, helping to save more than 2 billion gallons of water across all Aquarion-owned companies over the last five years. There's still more to do, though. Here are some easy tips on what everyone can do to conserve the supply of this irreplaceable resource:

Reduce excessive irrigation

Get rid of wasteful, “set ‘em and forget ‘em” timers. Water only when the ground feels dry. Use WaterSense labeled spray sprinkler bodies.

Rely more on the sky

Put a rain barrel under a down-spout to capture rainwater for your garden.

Forget fertilizing

Many use salts that make your lawn less drought-resistant.

Jilt the jiggling

Fix leaky toilets. Watch our step-by-step video at www.aquarionwater.com about finding and fixing leaks. Better yet, upgrade to a new, WaterSense-labeled model to save three or more gallons with every flush.

Put scraps to work

Compost vegetable scraps to nourish your garden, instead of using water to grind them up in your garbage disposal.

For more tips, visit www.aquarionwater.com/abenaki/conserve.



HOW YOU CAN GET INVOLVED

Abenaki Water Company has customer meetings for people who are interested in learning first-hand what we are working on in our systems and what we are planning for the future. If you're interested in attending any of these meetings, please call our New Hampshire office at [603-926-3319](tel:603-926-3319) ext 116 and provide your contact information so we can inform you about scheduled meeting dates.

