2021 Consumer Confidence Report

Northumberland Water Department PWS#1781010 Groveton PWS#1781030 Lost Nation

Introduction

supply of drinking water to our customers we are successful in providing a safe and reliable summarized in this report. We are proud to say that our water between January and December 2020 are laboratories. The results of the tests conducted on of the water, utilizing the services of state-certified we produce. In addition we conduct regular testing erators monitor and maintain the quality of water ty. Each day our certified water treatment plant opprovide you with drinking water of the finest quali-We will continue to work on your behalf in order to ed, all federal and state health safety requirements. Northumberland Water Department met, or exceed report that drinking water provided to you by the 2020: Groveton and Lost Nation. We are pleased to conducted within out two water systems during summarizes the results of the water system tests ment's 2021 Water Quality Report. This report Welcome to the Northumberland Water Depart-

The water system was upgraded in 2006 and can provide in excess of 500,000 gallons of water daily to over 1,000 customers. Most of our customers are homes, but we are also responsible for providing drinking water to numerous commercial and industrial entities as well as public facilities.

This annual report documents all detected primary and secondary 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 stormwater 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 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 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?

Our Municipal water supply draws groundwater from two gravel-packed wells that are located in close proximity to one another on Mayhew road which is about ½-mile from the northern entrance of the Brown Road in Groveton Village. In addition, there are also two bedrock wells located about 2 miles from the Groveton entrance up Lost Nation Road. Both water sources are disinfected.

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.

ple 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 July 17, 2001 are noted below.

Groveton GPW 002, 3 susceptibility factors were rated high, 2 were rated medium, and 7 were rated low. GPW 003, 1 susceptibility factor was rated high, 3 were rated medium, and 8 were rated low.

Lost Nation 2 bedrock wells, 0 susceptibility factors were rated high, 1 was rated medium, and 11 were rated low.

Note: This information is over 18 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 Town Office. For more information, call **Robin Irving at 603-636-7399** 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, the Water Superintendent can be contacted through Robin Irving in the Board of Selectmen's Office at 603-636-7399. Selectmen's meetings are held every first and third Monday of the month at 6:00 pm at the 10 Station Square Meeting Room.

Violations and Other information: *See violation* list in table below.

Definitions:

Ambient Groundwater Quality Standard or AGQS: The maximum concentration levels for contaminants in groundwater that are established under RSA 485-C, the Groundwater Protection Act.

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

Level I Assessment: A study of the water system to identify potential problems and determine, if possible, why total coliform bacteria have been found in our water system.

Level II Assessment: A very detailed study of the water system to identify potential problems and determine, if possible, why an E.coli MCL violation has

occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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.

Maximum Residual Disinfectant Level or 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 or 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 contaminants.

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

Abbreviations:

BDL: Below Detection Limit mg/L: milligrams per Liter NA: Not Applicable

ND: Not Detectable at testing limits
NTU: Nephelometric Turbidity Unit
pCi/L: picoCurie per Liter
ppb: parts per billion
ppm: parts per million

RAA: Running Annual Average TTHM: Total Trihalomethanes

UCMR: Unregulated Contaminant Monitoring Rule ug/L: micrograms per Liter

Drinking Water Contaminants:

water for drinking and cooking. If you are conusing water for drinking or cooking. Do not use hot water from your tap for at least 30 seconds before mize the potential for lead exposure by flushing cold ter has been sitting for several hours, you can miniused in your plumbing components. When your wawater, but can not control the variety of materials ed with service lines and home plumbing. This waprimarily from materials and components associaten and young children. Lead in drinking water is rious health problems, especially for pregnant wom-Drinking Water Hotline or at take to minimize exposure is available from the Safe drinking water, testing methods, and steps you can have your water tested. Information on lead in cerned about lead in your water, you may wish to ter system is responsible for high quality drinking Lead: If present, elevated levels of lead can cause se-

http://water.epa.gov/drink/info/lead/index.cfm

PWS ID: 1781010 Groveton Water System and 1781030 Lost Nation Water System System Name: Northumberland Water Department

2021 Report (2020 data)

*If applicable report average and range and date sampled if prior to the reporting year. Level detected must be reported as whole number, see Env-Dw 811, Appendix B for conversions:

	o C				DETECTED WATER QUALITY	ALITY RESULTS
Contaminant (Units)	Level Detected*	MCL	MCLG	Violation YES/NO	Likely Source of Contamination	Health Effects of Contaminant
Inorganic Contaminants	ninants					
Barium	Groveton	2	2		Discharge of drilling	Some people who drink water containing barium in excess of the MCL over many
(ppm)	(0.021) 2017				wastes; discharge from metal refineries;	years could experience an increase in their blood pressure.
	Lost Nation				erosion of natural	
	(0.008)2017				deposits	
Fluoride	Groveton (<0.1)	4	4	ON	Erosion of natural	Some people who drink water containing fluoride in excess of the MCL over many
(ppm)	7/7/2020				deposits; water additive which	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
	Lost Nation				promotes strong teeth;	in children less than nine years old. Mottling also known as dental fluorosis, may
	(0.20) 7/7/2020				discharge from fertilizer and aluminum factories	include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.
Nitrate (as Nitrogen)	Groveton (1.7) 7/7/2020	10	10		Runoff from fertilizer use; leaching from sentic tanks sewage:	(5 ppm through 10ppm) Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue haby syndrome. Nitrate levels may rise quickly for short periods of time
41	Lost Nation (<0.5) 7/7/2020				erosion of natural deposits	because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.
						(Above 10 ppm) Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.
Sodium (ppm)	Groveton (9.5) 7/7/2020	100-250		NO		The municipality is required to regularly sample for sodium
	Lost Nation(<5)	Action Level				
	2017					

Radioactive Contaminants	aminants				
Compliance	Groveton (4.4)	15	0	Erosion of natural	Certain minerals are radioactive and may emit a form of radiation know as alpha
Gross Alpha	2016			deposits	
(pCi/L)					MCL over many years may have an increased risk of getting cancer.
	Lost Nation				
	(0.3)2014				
Uranium	Groveton (1.8)	30	0	Erosion of natural	Some people who drink water containing uranium in excess of the MCL over many
(ug/L)	7/10/18			deposits	years may have an increased risk of getting cancer and kidney toxicity.
	Lost Nation				
	(0.2) 2016				
Combined	Groveton (0.1)	5	0	Erosion of natural	Some people who drink water containing radium 226 or 228 in excess of the MCL
Radium 226 +	2015			deposits	over many years may have an increased risk of getting cancer.
228 (pCi/L)	Lost Nation				
	(0.2) 2014			***	

^{*}The value must be reported as whole number, see Env-Dw 811, Appendix B for conversions: **LEAD AND COPPER**

pressure.					o and	-	***	
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		Z	None	7/31/2020	(0.002)			
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	systems, erosion of natural deposits				Lost			
(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	Corrosion of household plumbing	NO	None	8/13/19	Groveton (0.002)	15	Lead (ppb)	
	preservatives				(0.42)			
the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.	natural deposits; leaching from wood	NO	None	7/31/2020	Lost Nation			
gastrointestinal distress. Some people who drink water containing copper in excess of	systems; erosion of						40 min	
in excess of the action level over a relatively short amount of time could experience	household plumbing				(0.041)		(ppm)	
Copper is an essential nutrient, but some people who drink water containing copper	Corrosion of	NO	None	7/7/2020	Groveton	1.3	Copper	
			AL		value *			
			above		sample			
	Contamination	Yes/No	sites		percentile	Level	(Units)	
Health Effects of Contaminant	Likely Source of	Violation	# of	Date	90 th	Action	Contaminant	

^{**}Pb and Cu are scheduled for 3rd quarter sampling for Groveton Water System

Town of Northumberland Reginald Charron, Water Superintendent