

Town of Lovettsville

Annual Drinking Water Report for 2016

INTRODUCTION

This Annual Drinking Water Quality Report for calendar year 2016 is designed to inform you about the quality of your drinking water as required by the Safe Drinking Water Act. The report contains details about where your water comes from, what it contains, and how it compares to the federal and state standards administered by the Virginia Department of Health (VDH).

GENERAL INFORMATION

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: microbial contaminants, such as viruses and bacteria, that 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 stormwater 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 by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; and 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 that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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 (EPA) Safe Drinking Water Hotline at (800) 426-4791.

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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800) 426-4791.

WHERE DOES THE TOWN'S WATER COME FROM AND HOW IS IT TREATED?

The Town of Lovettsville produces drinking water from four groundwater wells located within the Town limits. Your water is treated by filtration and disinfection. Filtration removes particles suspended in the source water. Particles typically include clays and silts, natural organic matter, iron and manganese, and microorganisms. Your water is also treated by disinfection. Disinfection involves the addition of chlorine or other disinfectants to kill bacteria and other microorganisms (viruses, cysts, etc.) that may be in the water.

PROTECTING OUR WATER SUPPLY

The Virginia Department of Health conducted a source water assessment in 2002. Like most wells, the Town's wells were determined to be of high susceptibility to contamination using the criteria developed by the state in its approved Source Water Assessment Program. The assessment report is available by contacting the Town of Lovettsville at (540) 822-5788.

Protecting our water supply is everyone's responsibility. You can help do your part by following these simple recommendations:

- Eliminate excess use of lawn and garden fertilizers and pesticides – they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to the Town's public sewer system.
- Dispose of chemicals, paints, fuels and pesticides properly; take used motor oil to a recycling center. For a schedule of hazardous material collection dates contact the Loudoun County Department of Solid Waste Management at 703-777-0100.

PREVENTING CROSS CONNECTIONS

Cross-connections are unprotected or improper connections to a public water distribution system that may cause contamination or pollution to enter the system. The Town is responsible for enforcing cross-connection control regulations and insuring that no contaminants can, under any flow conditions, enter the distribution system. If you have any of the devices listed below please contact the Town so that we can discuss the issue, and if needed, survey your connection and assist you in isolating it if that is necessary. High risk items include: boiler/radiant heater (water heaters not included), underground lawn sprinkler system, and anything that has an automatic water fill such as some decorative ponds, watering troughs, and pools or hot tubs.

HOW CAN I GET INVOLVED?

Please contact the Town of Lovettsville Town Office at (540) 822-5788.

ADDITIONAL INFORMATION FOR 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. The Town of Lovettsville is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components in individual homes and businesses. 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 or at <http://www.epa.gov/safewater/lead>.

Water Quality Data Table

To ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old.

Contaminants	MCLG	MCL,	Your	Range		Sample	Violation	Typical Source
	Or	TT, or		Low	High			
	MRDLG	MRDL	Water			Date		
Disinfectants & Disinfectant By-Products								
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)								
TTHMs [Total Trihalomethanes] (ppb)	NA	80	37.8	NA	NA	2016	No	By-product of drinking water disinfection
HAA5 [Haloacetic acids] (ppb)	NA	60	6	NA	NA	2016	No	By-product of drinking water disinfection
Chlorine (ppm)	4	4	1.31	0.78	1.87	2016	No	Water additive used to control microbes
Chemical and Radiological Contaminants								
Barium (ppm)	2	2	0.049	0.037	0.049	2016	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4	4	0.234	0.198	0.234	2016	No	Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Chromium (ppb)	100	100	7.1	ND	7.1	2013	No	Discharge from steel and pulp mills; Erosion of natural deposits
Selenium (ppb)	50	50	10.1	ND	10.1	2013	No	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines

Microbiological Contaminants	MCLG	MCL	No. of Samples Indicating Presence of Bacteria	Violation (Y/N)	Sampling Year	Typical Source of Contamination
Total Coliform Bacteria	0	1 positive monthly sample	1	N	Jan-March 2016	Naturally present in the environment
<i>E. coli</i>	0	1 routine sample and a repeat sample are total coliform positive, and one is also <i>E. coli</i> positive.	1	N	Jan-March 2016	Human and animal fecal waste

On January 20, 2016, routine sampling returned a positive result for total coliform and *E. coli*. Although the routine sample was *E. coli* positive, the repeat samples collected the following day were found to be absent for both *E. coli* and total coliform bacteria; therefore, the Town was not in violation of the Virginia Waterworks Regulations.

<u>Lead and Copper Contaminants</u>	<u>MCLG</u>	<u>Action Level</u>	<u>Action Level Detected</u>	<u>Sample Date</u>	<u># Samples Exceeding AL</u>	<u>Exceeds AL</u>	<u>Typical Source</u>
Copper - action level at consumer taps (ppm)	1.3	1.3	0.27	2016	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead - action level at consumer taps (ppb)	0	15	1.9	2016	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

DEFINITIONS:

The following definitions are provided to help you better understand the various terms and abbreviations found in this report.

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

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

pCi/L – picocuries per liter (a measure of radioactivity)

positive samples/month – Number of samples taken monthly that were found to be positive

NA – not applicable

ND – not detected

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.

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.

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

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

MRDLG – Maximum residual disinfection 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 contaminants.

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.

For more information please contact:

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IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met For Town Of Lovettsville

NOTICE TO CONSUMERS of the TOWN OF LOVETTSVILLE WATERWORKS IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

State Health Officials have advised us of a failure to perform required monitoring for December 2016 in accordance with the Virginia *Waterworks Regulations*. 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 our drinking water meets health standards. During the month of December 2016, we did not monitor for coliform bacteria and chlorine residual concentrations. Therefore, we cannot be sure of the quality of your drinking water during that time. Two samples were required for analysis and none were analyzed, however, subsequent water samples collected in January, 2017 met regulatory requirements. State Health Officials believe that there is little need for concern about the safety of your water because past records show that the waterworks has had no documented problems with bacteriological contamination; however, routine sampling and examination are required to determine the quality of water delivered to customers.

There is nothing you need to do at this time. We have collected and had analyzed the required number of bacteriological and chlorine concentration samples during January 2017. Samples were absent for coliform bacteria, and chlorine residual was found to be within the acceptable range. This violation has been resolved and the Town is currently in compliance with the Virginia *Waterworks Regulations*.

For more information, please contact: Stephen Gates at 540-822-5788.

What Is Being Done?

We improved the design of our monitoring schedule to make it easier to identify monitoring requirements throughout the year, and help ensure that samples are not missed in the future.