

Village of Leesburg, Ohio Water Department Drinking Water Consumer Confidence Report For 2010

The Leesburg Water Department receives its drinking water from three wells. These wells are located at the water treatment plant and at the ball field located just south of the water plant. These two locations are situated just south of Stafford Road and west of State Route 28. The wells pump raw water from an underground aquifer to the water treatment plant.

The Ohio EPA has completed a study of Leesburg's source of drinking water, to identify potential contaminant sources and provide guidance on protecting the drinking water source. According to this study, the aquifer that supplies water to Leesburg has a low susceptibility to contamination. This determination is based on the following:

1. Presence of a moderately thick layer of clay overlaying the aquifer.
2. Significant depth of the aquifer.
3. No evidence to suggest that ground water has been impacted by any significant levels of chemical contaminants from human activities.
4. No apparent significant potential contaminant sources in the protection area.

Implementing appropriate protective measures can minimize the risk of future contamination. More information about the source water assessment or what consumers can do to help protect the aquifer is available by calling (937) 780-3281.

What are sources of contamination to drinking water?

The sources of drinking water both tap water and bottled water includes 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: (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife; (B) 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; (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses; (D) 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; (E) 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, USEPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. 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 Safe Drinking Water Hotline at 1-800-426-4791.

Who needs 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 infection. 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 (1-800-426-4791).

About your drinking water.

The EPA requires regular sampling to ensure drinking water safety. Regular sampling is required for bacteria, inorganic, radiological, synthetic organic, and volatile organic contaminants. Samples were collected for all contaminants required by the EPA for the calendar year 2010. The Ohio EPA requires us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, are more than one year old. Listed in the following chart are the results of the contaminants that were detected in the Leesburg Water Department's drinking water.

We have a current, unconditioned license to operate our water system.

Lead Educational Information

"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. Leesburg Water Department is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. 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 at <http://www.epa.gov/safewater/lead>."

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Microbiological Contaminants							
TOTAL COLIFORM BACTERIA	0	1	1	0 – 1	NO	2010	Naturally present in the environment
Radioactive Contaminants							
ALPHA (Pci/L)	15	0	3.0	ND-3.0	NO	2009	Erosion of natural deposits
Inorganic Contaminants							
BARIUM (ppm)	2	2	0.410	N/A	NO	2009	Erosion of natural deposits, discharge of drilling wastes
COPPER (ppm)	AL=1.3	1.3	0.551	N/A	NO	2008	Corrosion of household plumbing systems
Zero out of ten samples was found to have copper levels in excess of the Action Level of 1.3 ppm							
FLUORIDE (ppm)	4	4	0.84	N/A	NO	2009	Erosion of natural deposits, discharge from fertilizer and aluminum factories
LEAD (ppb)	AL=15	0	7.0	N/A	NO	2008	Corrosion of household plumbing systems, erosion of natural deposits
Zero out of ten samples was found to have lead levels in excess of the Action Level of 15 ppb.							
NITRATE (ppm)	10	10	<0.10	N/A	NO	2010	Run off from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Volatile Organic Contaminants							
TOTAL TRIHALOMETHANES (ppb)	0	80	4.5	1.4-4.5	NO	2010	By-product of chlorination
DIBROMOCHLORO METHANE (ppb)	N/A	N/A	20.4	ND-50.2	NO	2009	By-product of chlorination
CHLOROFORM (ppb)	N/A	N/A	28.5	4.2-76.7	NO	2009	By-product of chlorination
BROMOFORM (ppm)	N/A	N/A	3.6	ND-3.6	NO	2009	By-product of chlorination
BROMODICHLORO METHANE (ppb)	N/A	N/A	18.2	1.4-50.2	NO	2009	By-product of chlorination
Residual Disinfectants							
CHLORINE (ppm)	MRDLG = 4	MRDL = 4	0.7	0.05 – 1.1	NO	2010	Water Additive used to control microbes

In September 2010, the Village of Leesburg had a total coliform bacteria positive sample. Four repeat samples that were collected immediately after the notification of the positive sample and all routine samples taken after this date were all total coliform bacteria negative (safe).

The Village of Leesburg public water system failed to meet the required residual for free or combined chlorine each month during 2010. The water treatment plant and distribution system are currently undergoing renovations in order to address these issues.

How do I participate in decisions concerning my drinking water?

Public participation and comments are encouraged at regular Council meetings of the Leesburg Village Council. The meetings are held at 6:45 p.m. on the third Thursday of each month at the Village Hall. For more information on your drinking water contact the Village at (937) 780-3281.

Definitions of some terms contained within this report.

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

Parts per Million (ppm) or Milligrams per Liter (mg/L) are units of measure for concentration of a contaminant.

Parts per Billion (ppb) or Micrograms per Liter (µg/L) are units of measure for concentration of a contaminant.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of 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.

Maximum Residual Disinfectant Level (MRDL): The highest residual disinfectant level allowed in drinking water.

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

Picocuries per liter (pCi/L): A common measure of radioactivity.

ND None of the contaminant detected in the sample.

<: A symbol which means less than.

N/A – Not applicable.