

# The Gladeville Utility District's Water Quality Report for 2018

GLADEVILLE UTILITY DISTRICT • 3826 VESTA ROAD • LEBANON, TN 37090  
State Public Water System ID #: TN0000264 Date Distributed: May 2019

The Gladeville Utility District is an equal opportunity provider and employer.

## Is my drinking water SAFE?

Yes, your drinking water is safe and it meets all of the Environmental Protection Agency's (EPA) health standards. In 2018 we conducted numerous tests for over 80 contaminants that might be found in drinking water. As you'll see in the chart on the back, we only detected 12 of these contaminants, and they were all at levels determined to be safe by the EPA.

## What is the SOURCE of my WATER?

Your water, which is groundwater, comes from three wells located at our water treatment plant at 3826 Vesta Road. Our goal is to protect our water source from contaminants and we are working with the State to determine the vulnerability of our water source to **potential** contamination. The Tennessee Department of Environment and Conservation (TDEC) has prepared a Source Water Assessment Program (SWAP) Report for the untreated water sources serving water to this water system. The SWAP Report assesses the susceptibility of untreated water source to **potential** contamination. To ensure safe drinking water, all public water systems treat and routinely test their water. Water sources have been rated as reasonably susceptible, moderately susceptible or slightly susceptible based on geologic factors and human activities in the vicinity of the water source. The source water for the Gladeville Utility District is rated as reasonably susceptible to potential contamination.

A detailed explanation of Tennessee's Source Water Assessment Program, the Source Water Assessment summaries, susceptibility scorings and the overall TDEC report to the EPA may be viewed online at:

<https://www.tn.gov/environment/article/wr-wq-source-water-assessment>

Also, you may contact the Water System to obtain copies of specific assessments. A wellhead protection plan is also available for your review by contacting Chief Operator James Hutchison at (615) 444 – 2869 between 8:00 A.M. and 4:30 P.M. on weekdays.

## Is the water system SECURE?

Following the events of September 11, 2001, we realize that our customers are concerned about the security of their drinking water. We urge the public to report any suspicious activities at any utility facilities, including the treatment plant, tanks, fire hydrants, etc. to (615) 449-0301 or (615) 444-2869.

## Is the water system meeting other RULES that govern our operations?

The State and EPA require us to test and report on our water on a regular basis to ensure its safety. With the exception of the monitoring violation as reported at the bottom of the back side of this sheet, we have met all of these requirements. Results of unregulated contaminant analyses are available upon request. We want you to know that we attempt to strictly follow all the rules.

## LEAD in Drinking Water

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 Gladeville Utility District 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 (800) 426-4791 or online at:

<http://www.epa.gov/safewater/lead>.

## Other INFORMATION

The sources of drinking water (both tap water and bottled water) may 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.

## Why are there 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 (800) 426-4791.

For more information about your drinking water, you may contact Chief Water Plant Operator James Hutchison at (615) 444 - 2869.

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 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 and the Tennessee Department of Environment and Conservation prescribe regulations which 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.

**Cryptosporidium** is a microbial parasite which is found in surface water and groundwater under the influence of surface water throughout the U.S. Although *Cryptosporidium* can be removed by filtration, the most commonly used filtration methods cannot guarantee 100 percent removal. Monitoring of our source water from February 2017 through January 2019 did indicate the presence of *Cryptosporidium* in 1 out of 24 samples tested. For informational purposes, please be aware that symptoms of infection by the parasite include nausea, diarrhea and abdominal cramps. Most healthy individuals are able to overcome the disease within a few weeks. However, immuno-compromised people have more difficulty and are at greater risk of developing severe, life threatening illness. Immuno-compromised individuals are encouraged to consult their doctor regarding appropriate precautions to take to prevent infection. For more information on *Cryptosporidium*, contact the Safe Drinking Water Hotline by calling (800) 426-4791.

## What are the possible HEALTH impacts of our drinking water?

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 from their health care providers about not only their drinking water, but food preparation, personal hygiene, and precautions in handling infants and pets. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbiological contaminants are available from the Safe Drinking Water Hotline, which may be reached by calling (800) 426-4791.

## How may I get INVOLVED?

Our Board of Commissioners normally meets at 11:00 A.M. on the second Tuesday of each month at the District's administrative office, located at 3826 Vesta Road. Please feel free to attend and participate in these meetings.

All governmental powers of the Gladeville Utility District are exercised by the District's Board of Commissioners. The Board consists of three members, serving staggered four-year terms. The Members of the Board are appointed by the County Mayor of Wilson County from a list of three nominees, in order of preference, submitted by the Board. All decisions made by the Board on customer complaints may be reviewed by the Utility Management Review Board, pursuant to Tennessee Code Annotated §7-82-702(7).

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

# Water Quality Data

About the **DATA**: Unless otherwise noted, the data presented in the following table are from sampling performed during the 2018 calendar year.

CONTAMINANT	Violation Yes/No	Level Detected	Range of Detections	Date of Sample	Unit of Measurement	MCLG	MCL	Likely Source of Contaminant
Turbidity <sup>1</sup>	No	0.14	0.02 - 0.14	2018	NTU	N/A	TT	Soil runoff
Total Organic Carbon <sup>2</sup>	No	1.92 avg.	1.20 – 2.73	2018	ppm	TT	TT	Naturally present in the environment
Total Coliform Bacteria (RTCR)	No	0		2018 (Qtrs. 1-4)		0	TT Trigger	Naturally present in the environment

## INORGANIC CONTAMINANTS

Chlorine	No	2.2 avg.	1.8 – 2.5	2018	ppm	MRDLG 4	MRDL 4	Disinfectant to control microbes
Fluoride	No	0.87 avg.	0.77 - 0.94	2018	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	No	0.30	N/A	2018	ppm	10.0	10.0	Soil runoff from fertilizer
Sodium	No	1.79		4-4-17	ppm	N/A	N/A	Erosion of natural deposits; used in water treatment
Lead <sup>3</sup>	No	90 <sup>th</sup> %= 1.07		06-17	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Copper <sup>3</sup>	No	90 <sup>th</sup> %= 0.301		06-17	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Gross Alpha	No	2.6		2014	pCi/L	N/A	15	Erosion of natural deposits

## VOLATILE CONTAMINANTS

Total Trihalomethanes (TTHM)	No	45.0	30 - 45	2018	ppb	0	80	By-product of drinking water chlorination
Haloacetic acid (HAA5)	No	53.0	32 - 53	2018	ppb	0	60	By-product of drinking water chlorination

## UNREGULATED CONTAMINANTS <sup>4</sup>

Strontium	No	190	N/A	2015	ppb			Naturally present in the environment
Vanadium	No	0.40	N/A	2015	ppb			Naturally present in the environment
Chromium, Hexavalent	No	0.09	N/A	2015	ppb			Naturally present in the environment
Chlorate	No	290	N/A	2015	ppb			Naturally present in the environment

### What do the **ABBREVIATIONS** used in the above table mean?

- **AL** - Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- **BDL** - Below Detection Limit.
- **MCLG** - Maximum Contaminant Level Goal, or 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, or 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.
- **MRDL**: Maximum Residual Disinfectant Level, or the highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for the control of microbial organisms.
- **MRDLG**: Maximum Residual Disinfectant Level Goal, or 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.
- **N/A** - Not Applicable.
- **NTU** - Nephelometric Turbidity Unit, which is a measure of the clarity of water. Turbidity in excess of 5 NTUs is just noticeable to the average person.
- **pCi/L** - PicoCuries per liter.
- **Parts per billion (ppb) or Micrograms per liter (Micrograms/L)** - Explained as a relation to time and money as one part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.
- **Parts per million (ppm) or Milligrams per liter (mg/l)** - Explained as a relation to time and money as one part per million corresponds to one minute in two years or a single penny in \$10,000.00.
- **RTCR** - Revised Total Coliform Rule. This rule went into effect on April 1, 2016 and replaces the MCL for total coliform with a Treatment Technique Trigger for a system assessment.
- **TT** - Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.

<sup>1</sup> **Turbidity** is a measure of the cloudiness of the water. We monitor turbidity because it is a good indicator of the effectiveness of our filtration system. We met the treatment technique for turbidity with 100% of our samples being below the permitted turbidity limit of 0.3 NTU.

<sup>2</sup> The Gladeville Utility District met the Treatment Technique requirements for **Total Organic Carbon** in 2018.

<sup>3</sup> During the most recent round of **LEAD** and **COPPER** testing, 0 out of 30 households sampled contained concentrations exceeding the lead action level and 0 out of 30 of the samples contained concentrations exceeding the copper action level.

<sup>4</sup> Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. For additional information call the Safe Drinking Water Hotline at (800) 426-4791.

## IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

### TIER 3 VIOLATION: Monitoring Requirements Not Met by the Gladeville Utility District

Our water system violated drinking water monitoring requirements during four consecutive months beginning in October 2016 and ending in January 2017. Even though these were not emergencies, as our customers, you have a right to know what happened and what we have done to correct that situation.

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 period of October 2016 through January 2017, we did not monitor on a schedule in accordance with the Environmental Protection Agency's Long Term 2 Enhanced Surface Water Treatment Rule (known as LT2 sampling) which requires the District to test for *Cryptosporidium* and *e. coli* in our source water and therefore cannot be sure of the quality of your drinking water at that time.

**What should I do?** There is nothing you should do at this time. The Table below lists the contaminants we did not properly test for during the specified period, how often we are supposed to sample for these contaminants, how many samples we are supposed to take, how many samples we took, and when samples should have been taken, and the dates or period of time when follow-up samples were taken:

Contaminant	Required Sampling Frequency	Number of Samples Taken	When Samples Should Have Been Taken	When 24 Samples Were Taken
<i>Cryptosporidium</i>	1 / month for 24 consecutive months	0 in Oct. 2016 – Jan. 2017	Monthly, Oct. 2016 – Sept. 2018	Monthly, Feb. 2017 – Jan. 2019
<i>e. coli</i>	1 / month for 24 consecutive months	0 in Oct. 2016 – Jan. 2017	Monthly, Oct. 2016 – Sept. 2018	Monthly, Feb. 2017 – Jan. 2019

**What is being / has been done?** We have since taken the required samples, beginning in February 2017 and continuing monthly through January 2019. The samples showed we have met the drinking water monitoring standards and we have now completed all the LT2 monitoring requirements and are in full compliance with the LT2 Enhanced Surface Water Treatment Rule. For more information, please contact Glenn Jordan at (615) 444-2869 or 3826 Vesta Road, Lebanon, TN 37090.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by the Gladeville Utility District as part of the District's 2018 Consumer Confidence Report. **State Water System ID # TN0000264.**

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