

How to reach us and get involved

If you have any questions about this report or your drinking water, please call Greg Purcell at 615-793-6536. For further information please feel free to participate in the Board of Mayor and Aldermen. Schedules for this meeting are posted on the city's website www.lavergnetn.gov. For more information about City Council meetings, please contact Bruce Richard son at 615-793-6295.

Water/Sewer Billing Information – Please call La Vergne Billing Customer Service at 615-793-5932, Monday–Thursday, 7 a.m. –5:30 p.m.
To Pay Your Bill – La Vergne City Hall-Office/ Drive Thru, Monday-Thursday, 7 a.m.-5:30 p.m. We also have a convenient drop box located next to our drive thru window. Credit/Debit Card payments are accepted. Inquire about automated account withdrawals.
Make on-line payments – www.lavergnetn.gov

Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 (1-800-426-4791).

Cross Connection Safety Information

The Tennessee Division of Water Supply requires all public water systems in the state to operate an ongoing program to protect the public water supply from possible cross connections. The most effective method for the La Vergne Water System to meet this requirement is to require customers to install a backflow preventer on the main supply line to their property or facility, thus protecting the community from any cross connections that may be present inside a customer's plumbing system. All water users benefit from an active, ongoing cross connection program that includes the installation of backflow preventers where required by state regulations and local codes.

If your property has a backflow device, please contact La Vergne's Cross-Connection Program at 615-793-6536 for more information.



Other 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.

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 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.

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, the EPA and the TDEC prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Compliance

Reporting Violation for La Vergne Water System

In 2018, the La Vergne Water System had one violation in January 2018 for failing to remain in compliance with turbidity less than 0.3 NTU in at least 95% of the readings from the Combined Filter Effluent (CFE).

What Should I Do?

You do not need to do anything regarding this violation, as the issue was addressed in February 2018.

What Happened and What is Being Done

La Vergne Water plant has improved the treatment techniques at the plant. The water plant is now in compliance. In accordance to Tennessee Department of Environment and Conservation, the issue was addressed with a public notice that was distributed to the community in February 2018.

La Vergne Contact Information

If you would like further information regarding this notice, please contact: Project Manager: Greg Purcell at 615-793-8691 or via mail at 700 Bon Aqua Drive, La Vergne, TN 37086



Inside / Water Quality Charts

Just what is in your drinking water, anyway? Find out with the water quality charts contained inside!

2018 Water Quality Report

January 2018 - December 2018



City of La Vergne Water Treatment Plant

Este informe contiene información muy importante acerca de su agua potable.

Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

We're pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

What is the quality of my drinking water?

Our water meets all of the Environmental Protection Agency's (EPA) health standards. We have conducted numerous tests for over 80 contaminants that may be in drinking water. As you'll see in the enclosed table, we only detected 10 of these contaminants and we found all of these contaminants at normal levels.

The La Vergne Water Treatment Plant treats drinking water and ensures water quality through continued monitoring and testing. You are one of approximately 13,000+ taps that water is delivered to daily.

History

The La Vergne Water System has served the public since the 1970's and the water treatment plant has been permitted to treat and supply drinking water since November, 1992. The system has grown with only 3,500 service taps in 1993 to the present 13,000+. Water usage has increased since the plant was built in 1992 to over 4 million gallons being delivered daily in 2018!

Water system security

Following the events of September, 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 treatment plants, pumping stations, tanks, fire hydrants, etc. by calling 615-793-7744.

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 the 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 at 1-800-426-4791.

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Contaminant	Violation	Level Detected	Range of Detections	Sampling Date	Units	MCLG	MCL	Likely source of contamination
Total Coliform Bacteria ¹	No	0	0-1	40 samples/month	P/A	0%	Total: (MCL = Less than 5% of samples/month)	Naturally present in the environment
		0	0	2018	P/A	0%	Fecal: (MCL=0% samples)	100% of samples tested negative for fecal coliform and E.coli
Turbidity ²	Yes	1 (Annual Average: 0.07)	0.04-1.49	Daily 2018	NTU	N/A	TT	Soil runoff
Copper ³	No	90th percentile = 0.1307		2017	ppm	1.3	AL=1.3	Corrosion of household plumbing, erosion of natural deposits, leaching from wood preservatives
Lead ³	No	90th percentile = 0.00227		2017	ppb	0	AL=15	Erosion of natural resources, household plumbing, corrosion
Fluoride ⁴	No	0.65	0.47-0.65	2018	ppm	4	4	Erosion of natural deposits, water additive, discharge from fertilizer & aluminum factories
Nitrate (as Nitrogen)	No	0.799		2018	ppm	10	10	Runoff from fertilizer use, leaching from septic tanks
Sodium	No	7.54		2018	ppm	N/A	N/A	Erosion of natural deposits, used in water treatment
TTHMs (Total trihalomethanes) ⁵	No	33.6 (Highest running locational average)	26.4-40.5	2018	ppb	N/A	80	By-product of drinking water chlorination
Haloacetic Acids (HAA5) ⁶	No	16.6 (Highest running locational average)	16.6-35.9	2018	ppb	N/A	60	By-product of drinking water disinfection
Total Organic Carbon ⁷	No	52.08	38.25-63.21	2018	ppm	N/A	TT	Naturally present in the environment
Cryptosporidium	Source water tested October 2016- September 2018 with 0.195 oocysts/L detected (Range 0.00-0.20/L) which is the lowest classification.							

Contaminant	Violation	Level Found	Range of Detections	Sampling Date	Units	MRDLG	MRDL	Likely source of contamination
Chlorine	No	1.89 mg/L	0.04-3.56	2018	ppm	4	4	Water additive used to control microbes

The terms used in the water quality summary table above and in other parts of this report are defined below. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2018. Data obtained before January 1, 2018, and presented in this report are from the most recent testing done in accordance with laws, rules, and regulations.

- AL – Action level, or the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- MCL – Maximum contaminant level, or the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.
- MCLG – Maximum contaminant level goal, or the level of a contaminant in there is no known or expected risk to health. MCLG's allow for a margin of safety.
- MRDL – Maximum residual disinfectant level, or the highest level of a disinfectant allowed in drinking water. There's convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- MRDLG – Maximum residual disinfectant level goal or the level of a contaminant drinking water disinfectant below which there's no known or expected risk to health. MRDLG's don't reflect the benefits of the use of disinfectants to control microbial contaminants.
- N/A – not applicable
- NTU – Nephelometric turbidity unit (NTU) is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- ppm – Parts per million or milligrams per liter explained in relation to time as one part per million corresponds to one minute in two years.
- ppb – Parts per billion or micrograms per liter explained in relation to time as one part per billion corresponds to one minute in 2,000 years.
- TT – Treatment technique or a required process intended to reduce the level of a contaminant in drinking water.



Table Notes

- Coliform:** The La Vergne water system collected 0 positive total coliform samples in the distribution system during 2018.
- We had a treatment technique violation for **turbidity** in January, 2018. With 66.1% being below the turbidity limit of 0.3 ntu
Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.
- 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 households sampled contained concentrations exceeding the copper action level. 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. La Vergne Water System 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 the 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 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>.
- The La Vergne Water System regularly wins the Water Fluoridation Quality Award from the Centers for Disease Control for its consistent and professional adjustment of water **fluoride** content to the optimal level for dental health.
- Some people who drink water containing **trihalomethanes** in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.
- Some people who drink water containing **haloacetic acids** in excess of the MCL over many years may have an increased risk of getting cancer.
- 2018 treatment technique requirements for 2018 ranged at 15 to 25 percent removal which we have met

Is our 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. We have met all of these requirements. Results of unregulated contaminant analyses are available upon request. We want you to know that we pay attention to all the rules. We, too, live, work, and play here in La Vergne. Our mission is to economically produce and supply high quality drinking water to the citizens of La Vergne. We will accomplish this through hard work, high performance, integrity, and teamwork. We hold ourselves accountable to the highest standards of ethics, trust, quality and service. We will respect and always strive to do what is right for our customers, employees, suppliers, community and the environment.

Notice hydrants being flushed?

The La Vergne Water Department flushes hydrants to prevent build-up of mineral deposits and better regulate chlorine residuals in the distribution system. The La Vergne Fire Department also performs flow testing on all fire hydrants.

What is the source of my Water

Your water, which is surface water, comes from the J. Percy Priest Lake. Our goal is to protect our water from contaminants and we are working with the state to determine the vulnerability of our water source to potential contamination. TDEC has prepared a Source Water Assessment Program (SWAP) report for the untreated water sources serving this water system. The SWAP report assesses the susceptibility of untreated water sources 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 geological factors and human activities in the vicinity of the water source. The La Vergne water system sources are rated as reasonably susceptible to potential contamination.

An explanation of Tennessee's SWAP, the Source Water Assessment summaries, susceptibility scorings and the overall TDEC report to the EPA can be viewed online at <http://tn.gov/environment/article/wr-wq-source-water-assessment> or you may contact the water system to obtain copies of specific assessments.

Think before you flush!

Flushing unused or expired medicines can be harmful to your drinking water. Properly disposing of unused or expired medications help protect you and the environment. Keep medications out of Tennessee's waterways by disposing of them in one of our permanent pharmaceutical take back bins. There are nearly 100 take back bins located across the state. To find a convenient location please visit: <http://tn.gov/environment/article/sp-unwanted-pharmaceuticals>