

West Robertson Water Authority Water Quality Report 2024

Is my drinking water safe?

Yes, our water meets all of EPA's health standards. We have conducted numerous tests for over 80 contaminants that may be in drinking water. As you'll see in the chart on the back, we only detected 10 of these contaminants. We found all of these contaminants at safe levels.

What is the source of my water?

Your water, which is surface water, comes from the Red River. West Robertson Water Authority purchases water from East Montgomery Utility District, which is surface water from the Cumberland River. 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. The Tennessee Department of Environment and Conservation (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 geologic factors and human activities in the vicinity of the water source. The West Robertson Water Authority sources rated as reasonably susceptible to potential contamination.

An explanation of Tennessee's Source Water Assessment Program, the Source Water Assessment summaries, susceptibility scorings and the overall TDEC report to EPA can be viewed online at <https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/source-water-assessment.html> or you may contact the Water System to obtain copies of specific assessments.

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 (800-426-4791).

Este informe contiene información muy importante. Tradúscalo o hable con alguien que lo entienda bien.

For more information about your drinking water, please call Jay Walker at 615-696-0667.

How can I get involved?

Our Water Board meets on the 2nd Tuesday of each month at 5pm at the WRWA Office, 604 Keysburg Rd, Adams, TN 37010. Please feel free to attend these meetings.

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 analysis are available upon request. We want you to know that we pay attention to all the rules.

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:

- 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, 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. West Robertson Water Authority's water treatment processes are designed to reduce any such substances to levels well below any health concern. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Do I Need 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 under-gone 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 not only their drinking water, but food preparation, personal hygiene, and precautions in handling infants and pets from their health care providers. 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 (800-426-4791).

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. to 615-696-2266.

Think before you flush!

Flushing unused or expired medicines can be harmful to your drinking water. Properly disposing of unused or expired medication helps protect you and the environment. Keep medications out of Tennessee's waterways by disposing 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: <https://tdeconline.tn.gov/rxtakeback/>

Lead in Drinking Water

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. **Error! Reference source not found.** is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards



Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish

to have your water tested, contact **Error! Reference source not found.** at 615-696-2266. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.

Lead Service Line Inventory

A Lead Service Line Inventory has been completed for our system and is accessible by contacting our office during regular business hours.

Water Quality Data

What does this chart mean?

- **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. 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.
- **MRDL**: 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 the control of microbial contaminants.
- **MRDLG**: Maximum residual disinfectant 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.
- **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
- **ND**- Non Detection
- **Parts per million (ppm) or Milligrams per liter (mg/l)** – explained in terms of money as a single penny in \$10,000.
- **Parts per billion (ppb) or Micrograms per liter** - explained in terms of money as a single penny in \$10,000,000.
- **Nephelometric Turbidity Unit (NTU)** - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- **LRAA** – Locational Running Annual Average
- **TT** - Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.
- **EMUD** – Water from East Montgomery Utility District

Most of the data presented in this table is from testing done between January 1, 2024 thru December 31, 2024.

Contaminant	Violation Yes/No	Level Detected	Range of Detections	Date of Sample	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria	No	0	0	2024	ppb	0	0	Naturally present in the environment
Turbidity ¹	No	0.15	0.03-0.15	2024	NTU	n/a	TT	Soil runoff
Turbidity ¹ EMUD	No	0.04 AVE	.03-.10	2024	NTU	n/a	TT	Soil runoff
Copper*	No	90 th %= 0.0324	ND – 0.0428	2024	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead*	No	90 th %= BDL	BDL- 0.00261	2024	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Atrazine	No	>0.000 120	ND- 0.00012	2024	ppb	3	3	Runoff from herbicide used on row crops
Atrazine EMUD	No	ND	ND	2024	ppb	3	3	Runoff from herbicide used on row crops
Nitrate (as Nitrogen) ²	No	3.88 AVE.	2.10-5.08	2024	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (Only Required to sample once per year)	No	10.6	10.6	4-3-24	ppm	N/A	N/A	Erosion of natural deposits; used in water treatment
Sodium EMUD	No	9.93		8-8-23	ppm	N/A	N/A	Erosion of natural deposits; used in water treatment
2,4-D	No	0.83	0.10-0.83	2024	ppb	70	70	Runoff from herbicide used on row crops.



TTHM** [Total trihalomethanes]	No	67.75 High LRAA	14.00- 93.8	2024	ppb	n/a	80	By-product of drinking water chlorination
Haloacetic Acids (HAA5)	No	39.20 High LRAA	9.36- 56.70	2024	ppb	N/A	60	By-product of drinking water disinfection.
Total Organic Carbon ³	No	TT		2024	ppm	TT	TT	Naturally present in the environment.
Chlorine	No	2.20 AVE.	1.20-2.80	2024	ppm	MRDLG 4	MRDL 4	Water additive used to control microbes.

*During the most recent round of Lead and Copper testing, only 0 out of 20 households sampled contained concentrations exceeding the action level.

¹100% of our samples were below the turbidity limit. 100% of EMUD samples were below turbidity limit.

²Nitrate 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 baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

**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.

³We have met all treatment technique requirements for Total Organic Carbon removal.

Cross-Connections

In order to maintain and protect our water system and its customers the West Robertson Water Authority takes this opportunity to inform the public about the dangers of cross-connections and how to prevent them. It is vitally important that our customers recognize and avoid cross-connections.

A cross-connection is any physical arrangement whereby a public water supply is connected, directly or indirectly, with any other water supply system; sewer, drain, conduit, pool, storage reservoir, tank, cattle trough, plumbing fixture, or other device which contains, or may contain contaminated water or other liquids of unknown or unsafe quality capable of imparting contamination to the public water supply as a result of backflow.

PLEASE BE AWARE AND CARE!

For more information about the dangers of cross-connections please call our office at (615) 696-2266.

Unregulated Contaminants: No unregulated contaminants were above the MRL.

MRL – Minimum Reporting Level is the lowest analyte concentration that meets Data Quality Objectives that are developed based on the intended use of this method.

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.