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2022 Consumer Confidence Report for Consolidated Utility District

Contaminant	Test Date	Unit	MCL	MCLG	Detection	Range	Sources	Violation
Lead (3)	6/9/20 - 7/28/20	ppm	AL=0.015	0	0.001 (90th percentile) All tests below Minimum Detection Limit of 0.002	N/A	Erosion of natural resources, household plumbing corrosion	NO
Copper (3)	6/9/20 - 7/28/20	ppm	AL=1.3	1.3	0.119 (90th percentile)	.015 to .3100	Household plumbing corrosion, erosion of natural deposits, leaching of wood preservatives	NO
Fluoride	Monthly	ppm	4	4	0.37 Average	0.17 to .67	Erosion of natural resources, additive to promote strong teeth, discharge from fertilizer and aluminum factories	NO
Nitrate	10/12/2022	ppm	10	N/A	0.164	N/A	Run off from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits	NO
Sodium	6/6/2022	ppm	N/A	N/A	9.65	N/A	Erosion of natural deposits	NO
Turbidity (1)	Continuous	NTU	At least 95% of monthly samples must be below .15 NTU	N/A	Lowest monthly percentage was 98.9% below .15 NTU highest level detected .27 NTU	.02 to 0.27	Natural river sediment. Turbidity is a measurement of water clarity, which aids in determining the effectiveness of our treatment process*	NO
Total Trihalomethanes (TTHMs)	Quarterly	ppb	80 4 Quarter Locational Running Annual Average	N/A	54.2 Highest Locational Running Annual Average	7.0 to 71.0	By-products of water chlorination	NO
Haloacetic Acids (HAA)	Quarterly	ppb	60 4 Quarter Locational Running Annual Average	N/A	39.2 Highest Locational Running Annual Average	5.6 to 51.3	By-products of water chlorination	NO
Chlorine	Daily	ppm	MRDL=4	MRDLG=4	Highest Quarterly Running Annual Average 1.82	0.2 to 3.5	Disinfectant added to kill pathogens	NO
Total Organic Carbon (2)	Monthly	TT	N/A	N/A	18% - 74% removal (15% required)	500 to 4480	Naturally present in the environment	NO
Chlorine Dioxide	Daily	ppm	0.8	MRDLG=.8	0.077 Average	0 to 0.42 Daily Range at WTP	Water additive used to control microbes	NO
Chlorites	Daily & Quarterly	ppm	1	0.8	0.648 Distribution Sample Average	0.19 to 0.99 Daily Range at WTP	By-products of water disinfection	NO
Bromodichloromethane	2/7/2022	ppm	N/A	N/A	0.0016	N/A Detection Limit .000500	Naturally present in the environment	NO
Chloroform	2/7/2022	ppm	N/A	N/A	0.00941	N/A Detection Limit .000500	Naturally present in the environment	NO
2,4-D	6/30/2022 10/12/22	ppb	70	70	24 & 0.0	N/A	Herbicide from agriculture, urban stormwater runoff, and residential uses.	NO
Coliform	Total Coliform: Tested Daily (MCL = 5% of total monthly samples)			0	Highest monthly # of positive total coliform samples. 3 of 120, August	0 to 2.5%	Naturally present	NO
	E. Coli: (MCL = 0% samples)			0	0	N/A	Animal or human fecal waste	NO
	100% of samples tested negative for E. Coli. Highest percentage of monthly positive total coliform samples was 2.5%. CUD immediately resampled above, below and at the same sites where the positive coliform samples were collected. All repeat samples tested negative for Total Coliform and E. Coli bacteria.							

See the notes about this chart on the following page

Key to Understanding the 2022 Consumer Confidence Report Chart

(1) Turbidity is a measure of cloudiness in the water. We monitor turbidity because it determines the effectiveness of our filtration system.

(2) CUD met the treatment technique required for Total Organic Carbon (TOC) in 2022. The percent removal is determined from the amount of TOC removed from the source water during the treatment process and the amount of TOC remaining in the finished water. The percent required is the percent removal required by regulation based on treatment technique. The percent removal must be greater than or equal to the percent required. Alternative compliance criteria was not used to determine TOC removal.

(3) None of the homes tested for lead and copper exceeded the action level. All lead test results were below detection level.

Terms and Abbreviations

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

BDL: Below Detection Limit

MCL: (Maximum Contaminant Level) 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.

MCLG: (Maximum Contaminant Level Goal) The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

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 the control of microbial contaminants.

NTU: (Nephelometric Turbidity Units) A measure of the turbidity of the water. Turbidity does not present any risk to your health.

We monitor turbidity, which is a measure of the clarity of the water, because it is a good indicator that our treatment process is functioning properly. Turbidity in excess of 5 NTUs is just noticeable to the average person.

pCi/L: (picocuries per liter) A measure of radioactivity
ppm: (parts per million) or Milligrams per liter (mg/l), explained in terms of money as one penny in \$10,000

ppb: (parts per billion) or Micrograms per liter (ug/l), explained in terms of money as one penny in \$10,000,000

ng/L (parts per trillion) or Nanograms per liter (ng/l), explained in terms of money as one penny in \$10,000,000,000

TT: (Treatment Technique) Required process intended to reduce the level of a contaminant in drinking water.

HAL: (Health Advisory Level) EPA's health advisory levels were calculated to offer a margin of protection against adverse health effects to the most sensitive populations.

WTP: Water Treatment Plant

CUD tests water on an ongoing basis to protect the safety and quality of the water supply. CUD also performs bacteriological testing a minimum of 120 times per month. The State of Tennessee and EPA require testing and reporting, and the results of our analyses are available upon request.



WHERE IS THE SOURCE OF MY WATER?

The high quality and quantity surface water source is located at the East Fork of the Stones River (J. Percy Priest Lake). Our goal is to protect our water from contaminants, and we work 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 near the water source. Consolidated Utility District's sources rated as reasonably susceptible to potential contamination. 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.

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.

[For information about contaminants and potential health effects, call the Safe Drinking Water Hotline \(800-426-4791\).](#)

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.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-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 personal sanitation, food preparation, handling infants and pets, personal lifestyle, bottled and tap drinking water from their healthcare providers. [EPA/CDC guidelines on appropriate means to lessen risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline \(800-426-4791\).](#)

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. Consolidated 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 (800-426-4791) or at www.epa.gov/safewater/lead.

- 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 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.

CRYPTOSPORIDIUM

Cryptosporidium is a microbial parasite which is found in surface water throughout the U.S. Monitoring of our source water did not indicate the presence of cryptosporidium.

While the most commonly used filtration methods cannot guarantee 100 percent removal, the treatment techniques employed at our water treatment facility minimizes the probability of Cryptosporidium oocyst in your drinking water. Symptoms of infection 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 a 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 \(800-426-4791\).](#)

TRIHALOMETHANES

Trihalomethanes: 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, although this has NOT been proven by any means.

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. Consolidated Utility District'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.



HOW CAN I GET INVOLVED?

Our Board of Commissioners meets at 1:00 p.m. on the fourth Tuesday of every month (unless otherwise advertised) at the utility office located at 709 New Salem Highway. Please feel welcome to attend.

The Commissioners of Consolidated Utility District serve four-year terms. Vacancies on the Board of Commissioners are filled by appointment by the Rutherford County Mayor from a list of three nominees certified by the Board of Commissioners to the Rutherford County Mayor to fill a vacancy. Customers can submit the names of qualified nominees.



Decisions by the Board of Commissioners on customer complaints brought before the Board of Commissioners under the District's customer complaint policy may be reviewed by the Utility Management Review Board of the Tennessee Department of Environment and Conservation pursuant to Section 7-82-702(7) of Tennessee Code Annotated.

Customer Complaints

Any customer or potential customer of CUD will have the right to voice a complaint and shall receive courteous consideration. If a customer is dissatisfied with a decision of District employees or management, the customer may appeal to CUD's Board of Commissioners at the regularly scheduled monthly board meeting.

Other Information

Water is considered the universal solvent and can be affected by anything it contacts. As the body of knowledge grows about the world around us, new regulations and techniques to gauge and guard water purity are inevitable.

Consolidated Utility District shall meet all regulations set forth by the United States Environmental Protection Agency and the Tennessee Department of Environment and Conservation. [If you have any questions about this report or treatment/testing procedures contact Chris Forte \(Director of Water Resources\) at \(615\) 895-4296.](#)

CUD reads every water meter and bills each customer every month. In the event of an abnormally high meter reading, we will attempt to alert the customer. Payment may be made at our drive-up window, payment counter, by mail, by bank draft, personal check or debit/credit card via phone, online at www.cudrc.com, through the myCUD app, or by night deposit.

Pharmaceuticals in Drinking Water

Flushing unused or expired medicines can harm your drinking water. Learn more about disposing of unused medicines at www.tn.gov/environment/program-areas/opsp-policy-and-sustainable-practices/community-programs-and-services/unwanted-household-pharmaceuticals-takeback-program.html

Water System Security

We urge the public to report any suspicious activities at any utility facilities, including treatment plants, tanks, fire hydrants, etc. to 615-893-7225.

Visit our website at www.cudrc.com If you have any questions about this report or treatment/testing procedures, contact Chris Forte (Director of Water Resources) at 615-895-4296.

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

THE ESSENTIALS OF CONSOLIDATED UTILITY DISTRICT

Our Core Values Are S-P-I-R-I-T



SAFETY: We operate safely – protecting ourselves and our coworkers and using best industry practices.



PEOPLE: We respect one another, recognizing that our success depends upon the commitment, capabilities and diversity of our employees.



INTEGRITY: We are ethical and trustworthy in our relationships with coworkers and ratepayers.



RESPONSIBILITY: We are accountable for our actions. We are a good neighbor and citizen of Rutherford County.



INNOVATION: We anticipate change and respond with creative solutions. We are agile and responsive to the changing needs of ratepayers and embrace learning opportunities from our experience.



TEAMWORK: Our can-do spirit delivers top performance. We encourage collaboration, celebrate success, and build and nurture long-standing relationships.

Quick Facts



CUD has installed more than 1,400 miles of pipe in Rutherford County. That's greater than the distance from Murfreesboro to Albuquerque, New Mexico.



CUD, as a nonprofit, is funded by debt, collected fees, and monthly bill payments.



Within our distribution network, we operate more than 20,000 valves and over 5,000 fire hydrants.



CONSOLIDATED UTILITY DISTRICT
Rutherford County, Tennessee

cudrc.com • (615) 893-7225 • Facebook: CUDRC

Monday - Friday: 8 a.m. - 4:30 p.m.