

LEBANON WATER QUALITY REPORT 2024

We are pleased to present to you the Annual Water Quality Report (Consumer Confidence Report) for the year, for the period of January 1 to December 31, 2024. This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water. (Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien). For more information regarding this report, contact Matt Hutton at 765-482-8751. Each year, Lebanon Utilities conducts thousands of tests on the drinking water we serve you to make sure it is safe. The format of this report follows the guidelines set by the United States Environmental Protection Agency (USEPA) as part of the Safe Drinking Water Act. The USEPA requires all public water providers to deliver this information to all customers on an annual basis in a single report that provides water quality data to the public in an understandable manner. We are pleased to provide you with the results of these tests. Listed below are detected contaminants in Lebanon's drinking water in 2023. All are below allowed levels. We don't list hundreds of other contaminants for which we tested that were not detected. "Our system collected samples under the U.S. EPA Unregulated Contaminants Monitoring Rule (UCMR) for 29 PFAS compounds and Lithium. This monitoring is being conducted so the EPA can receive occurrence data for these compounds to determine what additional compounds may need to be regulated in drinking water. We collected samples in 12/2024 not detect any of the compounds. If you would like to view our results, contact our office at 765-482-8851. The most important information contained in this report is that our drinking water quality continues to meet all state and federal regulations. We are committed to providing the highest quality drinking water to our customers. Our laboratory tests our water at the wellhead, at various stages of treatment and within the distribution system for bacteria and a wide range of inorganic and organic chemicals. In fact, we test our drinking water for far more chemicals than required and at a frequency far in excess of local, state and federal regulations. Because of these stringent safeguards, we can reassure all our customers that the water we deliver to them meets all drinking water standards and guidelines. This Drinking Water Quality Report contains extensive water quality information.

Water Quality Characteristics									
Secondary Contaminants	Collection Date	Units	Min	Max	Avg	MCL	MCLG	Likely Source of Contamination	
	Year								
Total Hardness	2023	267 ppm tested on 5/24/2023				n/a	n/a	Erosion of Natural Deposits	
		equal to 15.60 grains							
Alkalinity (CaCO3)	2023	290 ppm tested on 5/24/2023							
pH	2023	S.U.	7.46	7.62	7.54				
Sodium	2023	ppm	47	68	57.5	n/a	n/a	Erosion of Natural Deposits	
Chloride	2023	44 ppm tested on 5/24/2023				250	n/a	Water additive used to control microbes.	
Regulated Contaminants									
Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	Avg	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	2023	2.0	2.0 – 2.0	2	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2023-2024	15	8.79 – 15.3	12.05	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023-2024	12	7.97 – 11.4	9.69	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG		MCL	Units	Violation	Likely Source of Contamination
Arsenic	4/3/2023	2.2	0 – 2.2	0		10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	4/3/2023	0.304	0.284 – 0.304	2		2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	4/3/2023	0.982	0.65 – 0.982	4		4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	5/28/2024	1.15	.853 – 1.15	10		10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG		MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2/3/2020	0.8	0.7 – 0.8	0		4	mrem/yr	N	Decay of natural and man-made deposits.
Combined Radium 226/228	2/3/2020	1.8	1.1 – 1.8	0		5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2/3/2020	1.3	0.4 – 1.3	0		15	pC/L	N	Erosion of natural deposits.
Corrosion from Household Plumbing				# Sites over AL		90%	AL	MCLG	Likely Source of Contamination
Copper	2020-2023	ppm	0.0055-0.968	0		0.733	1.3	1.3	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2020-2023	ppb	1-1.72	0		1.05	15	0	Corrosion of household plumbing systems; Erosion of natural deposits.
Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive		Fecal Coliform or E. Coli Maximum Contaminant Level		Total No. of Positive E. Coli or Fecal Coliform Samples		Violation	Likely Source of Contamination
0	In the month of April, 2 sample(s) returned as positive	0				0		N	Naturally present in the environment.

Total Trihalomethanes (TTHM's) and Haloacetic Acids (HAA5's) are based on a running average (RA) of samples taken from both plants from the 4th quarter of 2023 thru the 4th quarter of 2024. The range is the low and highest detection levels.

Lead & Copper are reported at the 90th percentile. Sample levels ranged from 0.012 to 1.4 ppm for copper testing and the lead testing ranged from less than 1.0 to 6.4 ppb.

Definitions: The table above contains scientific terms and measures, some of which may require explanation.

- **Action Level Goal (ALG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.
- **Action Level:** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **Avg:** Regulatory compliance with some MCLs are based on running annual average of monthly samples.
- **Maximum Contaminant Level or MCL:** 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.
- **Level 1 Assessment:** A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- **Maximum Contaminant Level Goal or 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.
- **Level 2 Assessment:** A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
- **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 control of microbial contaminants.
- **Maximum residual disinfectant level goal or MRDLG:** 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.
- **na:** not applicable.
- **mrem:** millirems per year (a measure of radiation absorbed by the body)
- **ppb:** micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
- **ppm:** milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
- **LRAA:** Locational Running Annual Average
- **picocuries per liter (pCi/L):** picocuries per liter is a measure of the radioactivity in water
- **Treatment Technique or TT:** A required process intended to reduce the level of a contaminant in drinking water.

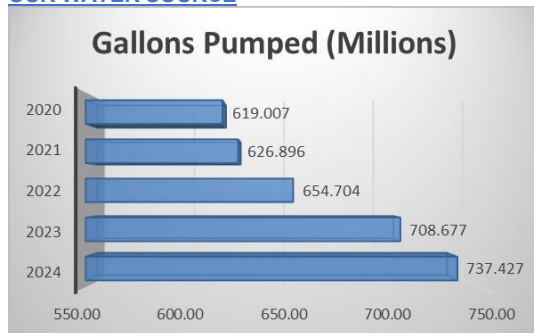
Sources of Drinking Water

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. 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 EPA's Safe Drinking Water Hotline at (800) 426-4791. 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 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. Some people may be more vulnerable to contaminants in drinking water than the general population. Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office. 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 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 (800-426-4791). 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. We are responsible for providing high quality drinking water, but we 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 or at <http://www.epa.gov/safewater/lead>. There is no safe level of lead in drinking water. Exposure to lead in drinking water can cause serious health effects in all age groups, especially pregnant people, infants [both formula-fed and breastfed], and young children. Some of the health effects to Infants and children include decreases in IQ and attention span. Lead exposure can also result in new or worsened learning and behavior problems. The children of persons who are exposed to lead before or during pregnancy may be at increased risk of these harmful health effects. Adults have increased risks of heart disease, high blood pressure, kidney or nervous system problems. Contact your health care provider for more information about your risks. Our lead service line inventory can be found at <https://idem.120water-ptd.com/>.

OUR WATER SOURCE



The City of Lebanon's drinking water comes from a confined underground aquifer. Before distribution, the drinking water is processed at either our Chicago Street Treatment Facility or our Sugar Creek Treatment Facility. Each facility has five groundwater wells ranging from 90 to 180 feet deep that draw water from the aquifer. The total daily pumping capacity of these wells is just over 4 million gallons a day. The well water is treated using aeration to reduce volatile organic compounds, hydrogen sulfide (an odor-causing compound), and iron. The water is then run through filters to remove the iron. The water is then disinfected (using chlorine gas) prior to sending it into the distribution system and to you, the consumer. Please contact us if you would like more information on our Wellhead Protection Program.

If you would like to attend one of our Utility Service Board meetings, they are normally scheduled for the first Wednesday after the first Monday of the month with another meeting following two weeks later again on Wednesday at 5:00 PM.

Please visit our website to keep informed of changes going on at the Lebanon Utilities. If you have any questions about your water or this report, please do not hesitate to contact us.

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