

Loma Linda University 2023 Water Quality Report

We are pleased to present our annual water quality report for water tests performed between January 1 and December 31, 2023. The water supplied to Loma Linda University, Loma Linda University Medical Center, and many other related entities on the Loma Linda University Health campus, has met or exceeded all U.S. EPA and State drinking water health standards. We are firmly committed to maintaining high quality water.

THE WATER SYSTEM

The Loma Linda University Water System operates three wells, Anderson Well 2, Anderson Well 3, and Anderson Well 4, which are located in the Bunker Hill Basin. The Bunker Hill Basin is a natural underground aquifer that is replenished from annual rainfall and snow pack from the San Bernardino Mountain Range. The water system also includes a 1.4 million gallon storage reservoir, and many miles of pipeline that service residents living in student housing and a substantial transient population. Loma Linda University also uses a supplementary supply of water from the City of Loma Linda when necessary. This report was prepared in May, 2024.

SPECIAL HEALTH INFORMATION

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 about drinking water from their health care providers. U.S. EPA/Centers for Disease Control (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 at (800) 426-4791.

EN ESPAÑOL: Este informe contiene información muy importante sobre su aqua para beber. Favor de comunicarse Loma Linda University Water System at (909) 558-4559 para assistirlo en español.

FOR ADDITIONAL INFORMATION ABOUT LOMA LINDA UNIVERSITY WATER QUALITY, PLEASE CONTACT THE LOMA LINDA UNIVERSITY CENTRAL UTILITIES PLANT AT (909) 558-4559.

SAFE DRINKING WATER HOTLINE:

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 U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

LEAD-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. Loma Linda University 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 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/lead.

Drinking Water Sources

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, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, that 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.

Abbreviations and Definitions AL (Regulatory Action Level):: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.	Organic chemical contaminants, including synthetic and vol- atile organic chemicals, that are by-products of industrial processes and petroleum production and can also come from gas stations, urban storm-water runoff, agricultural applica- tion, and septic systems. Radioactive contaminants, which can be naturally occurring				
 MCL (Maximum Contaminant Level): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water. MCLG (Maximum Contaminant Level Goal): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (U.S. EPA). 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 control of microbial contaminants. MRDLG (Maximum Residual Disinfectant Level): The highest level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG (Maximum Residual Disinfectant Level): The highest level of a drinking water disinfectant set by the use of disinfectant set. 	or the result of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) and the State Water Resources Control Board (State Water Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also estab- lish limits for contaminants in bottled water that provide the same protection for public health. <u>NITRATE</u> Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the ca- pacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with cer- tain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from				
PDWS (Primary Drinking Water Standards): MCLs,	your health care provider.				
contaminants that affect health, along with their monitoring and reporting requirements.	Units of Measure				
PHG (Public Health Goal): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.	mg/L: milligrams per liter or parts per million (ppm) Equivalent to 1 second in 11.5 days ug/L: micrograms per liter or parts per billion (ppb). Equivalent to 1 second in nearly 32 years				
SDWS (Secondary Drinking Water Standards): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.	ng/L: nanograms per liter or parts per trillion (ppt). Equivalent to 1 second in 32,000 years pg/L: picograms per liter or parts per quadrillion (ppq). Equivalent to 1 second in nearly 32,000,000 years				
UCMR: Unregulated Contaminant Monitoring Rule	pCi/L: picocuries per liter (a measure of radiation)				

2023 DRINKING WATER QUALITY TEST RESULTS

In 2023, the Loma Linda University Central Utilities Plant water technicians conducted numerous water quality tests from samples taken at various locations through-out the water system in accordance with state and federal regulations. We are pleased that our water complied with or did better than those regulations. The following chart shows contaminants that were detected in the water. The State allows us to monitor for some contaminants less than once per year because concentrations of these contaminants do not change frequently. Some of our data, though representative, is more than one year old.

CONSTITUENT YEAR LLU RANGE PHG (MCLG) SOURCE RANGE RANGE RANGE RANGE SOURCE Radum 226 (p.Cu) 2022 0.41 -0.14 - 1.98 S N/A Radum 226 (p.Cu) 2022 0.23 0.0685 S N/A Frosion of natural deposits Radum 226 (p.Cu) 2022 0.23 0.7 R.95 S N/A Uranium (p.Cill) 2022 0.23 0.7 R.95 S N/A Uranium (p.Cill) 2023 0.061 0.061 1 Erosion of natural deposits; discharges of oil drilling wastes Barium (mgL) 2023 0.067 0.67 2 1 Erosion of natural deposits; discharges of oil drilling wastes Ntrate (as Nitrogen) (mgL) 2023 5.67 1.1 -7.7 10 10 Rund and leaching from finitizer adalum which promotes Intratiscomethanes usally gets in drinking water ad animul deposits; usally gets in drinking water ad animul deposits; usally gets in drinking water ad animul deposits; usally gets in drinking water ad animul for matural deposits; <th colspan="10">PRIMARY REGULATED CONSTITUENTS</th>	PRIMARY REGULATED CONSTITUENTS										
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(HAA5) (ug/L)Image: Construct of the system of	Haloacetic Acids	2023	0.7	ND - 1.4	60	N/A	By-product of drinking water disinfection				
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Copper (mg/L) 2022 20 0.2 1.3 0.3 natural deposits; leaching from wood preservatives	Lead (ug/L)	2022	20	ND	15	0.2	Internal corrosion of water plumbing systems; erosion of				
	Copper (mg/L)	2022	20	0.2	1.3	0.3	natural deposits; leaching from wood preservatives				

No schools have requested lead sampling.

UNREGULATED CONSTITUENTS AND ADDITIONAL TESTS									
CONSTITUENT	LLU AVERAGE	LLU RANGE	REGULATORY ACTION LEVEL	Unregulated constituent monitoring helps the U.S. EPA and the State Water Resources Control Board to					
Alkalinity (mg/L) (2023)	210	210	None						
Biocarbonate (mg/L) (2023)	210	210	None						
Calcium (mg/L) (2023)	45	16-67	None	determine where certain contami-					
Hexavalent Chromium (ug/L) (2014)*	3.1	1.8 - 4.4	0.02 (PHG)	nants need to be regulated.					
Magnesium (mg/L) (2023)	8.4	1.1 - 13	None						
Perfluorohexane Sulfonic Acid (PFHxS) (ng/L) (2023) (UCMR 5)	0.5	ND-3.1	3	*Some people who drink water con- taining hexavalent chromium in ex- cess of the MCL over many years may have an increased risk of getting					
Perfluorooctanesulfonic Acid (PFOS) (ng/L) (2023) (UCMR 5)	0.7	ND-4.2	6.5						
pH (pH units) (2023)	7.6	7.6	None						
Potassium (mg/L) (2023)	2.5	2.5	None						

WATER CONSERVATION TIPS

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference—try one today and soon it will become second nature.

- Take short showers—a 5 minute shower uses 4 or 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair, and shaving and save up to 500 gallons a month.
- Use a water-efficient showerhead. They are inexpensive, easy to install and can save you up to 750 gallons a month.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- Water plants only when necessary.
- Fix leaking toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace.
- Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- Teach your children about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!
- Visit https://www.epa.gov/watersense for more information.

DRINKING WATER SOURCE ASSESSMENT: A drinking water source assessment of Anderson Well 2 was conducted in July, 2023. Anderson Well 3 assessment was conducted by San Bernardino County Environmental Health Services in May, 2002. Anderson Well 4 drinking water source assessment was conducted in March, 2014. The purpose of these assessments is to identify potential sources of contamination and develop ways to protect the water supply. Our water source is considered most vulnerable to contamination by activities such as sewer collection systems and automobile gas stations. It is also vulnerable from a known contaminant plume that contains perchlorate.

A copy of the complete assessment may be viewed at the San Bernardino County Environmental Health Services office at 385 N. Arrowhead Avenue, 2nd Floor, San Bernardino, CA 92415-0160. You may request a summary of the assessment be sent to you by contacting the Environmental Health Specialist at (800) 442.2283.