



## SOURCES OF WATER

The District purchases water from the Los Angeles Department of Water and Power (LADWP). LADWP water comes from the Eastern Sierras in the Owens valley via the Los Angeles Aqueduct. At the Los Angeles Aqueduct Filtration Plant, water is treated as follows:

Water flows into the filtration plant by gravity and travels through screens to separate large debris and plants. Ozone is added to the water to kill harmful bacteria and improve the taste and odor of water. Treatment chemicals are quickly dispersed into the water to form particles called floc. Coal and gravel filtration remove the floc and previously added chemicals. Chloramines (chlorine plus ammonia) disinfection is used to kill remaining microorganisms, such as bacteria, and to keep the water safe as it travels to your tap.

In June 2022, LADWP completed a source water assessment of the Los Angeles Aqueduct. The Los Angeles Aqueduct is most vulnerable to contamination from geothermal activities, agriculture, wildlife, and unauthorized public use of reservoirs.

For further information, please visit [www.ladwp.com](http://www.ladwp.com) or call 1-800-DIAL DWP.



Field Service Workers, Customer Service Representatives and Engineers work together to provide customers with safe drinking water.

## TO OUR CUSTOMERS

Each year, the Los Angeles County Waterworks Districts (District) provides this report to inform you, our customers, about the quality of the water you drink. We are proud to report that in 2023, your water met or surpassed all health-based drinking water standards.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

We welcome your thoughts and suggestions to improve our service and delivery of the earth's most precious resource. Please visit our website, [www.lacwaterworks.org](http://www.lacwaterworks.org), or attend our Board meetings. They are typically held every Tuesday at the Kenneth Hahn Hall of Administration in Los Angeles.

Thank you for taking the time to read our annual water quality report. We look forward to another year of providing you with safe, reliable water.

Este reporte contiene información importante sobre la calidad de su agua potable durante el año civil 2023. Si usted no comprende esta información, por favor pida a alguien que se la traduzca o comuníquese con Lisset Cardenas al teléfono (626) 300-3384.

## PUBLIC PARTICIPATION AND CONTACT INFORMATION

The regular meetings of the Los Angeles County Board of Supervisors are held every Tuesday at 9:30 a.m. in the Board's Hearing Room located 500 West Temple Street, Room 381B, Kenneth Hahn Hall of Administration in Los Angeles. On Tuesdays following a Monday holiday, the meetings begin at 1:00 p.m.

For questions or comments regarding water quality or this report, please contact Mr. Hatem Ben Miled at (626) 300-4679. To view this report on the internet, please visit our website at [www.lacwaterworks.org](http://www.lacwaterworks.org).

# Waterworks District No. 21, Kagel Canyon



## ANNUAL WATER QUALITY REPORT

Water testing performed in 2023



# PROTECTING OUR WATER FROM CROSS CONNECTIONS

## Understanding Cross-Connections and Backflow

Cross-connections are points where the potable water supply is connected to a non-potable source. Backflow occurs when water flows in the opposite direction, which can lead to contamination of drinking water. This can happen due to backsiphonage or backpressure.

## Examples of Backflow Contamination

One common example is when low pressure in the water system, such as from a broken hydrant, draws contaminated water back into the public water system. This can introduce harmful substances into our drinking water supply.

## Importance of Backflow Prevention Devices

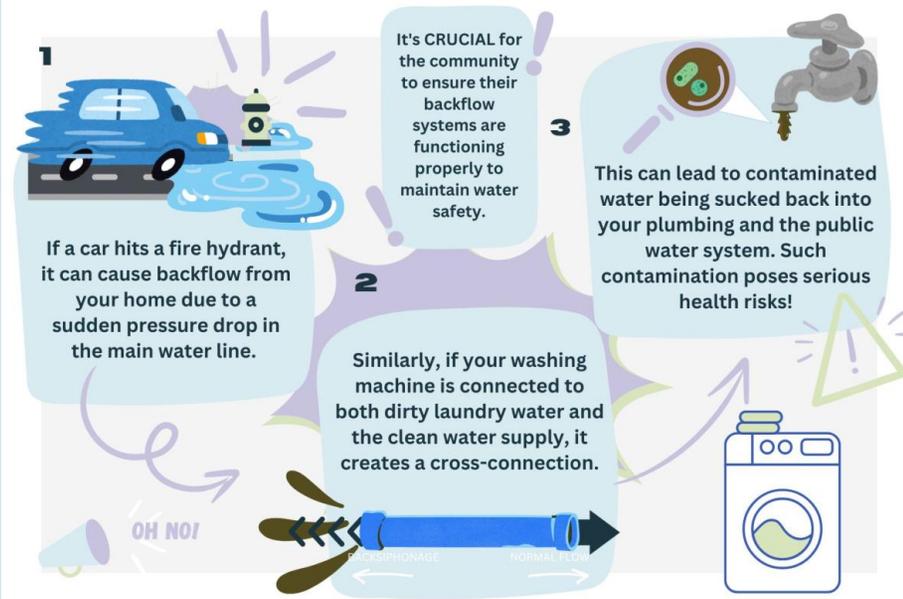
To protect our water supply, all new connections undergo a water use survey to determine if backflow prevention devices are needed. These devices must be tested yearly to ensure they are functioning correctly. If you are unsure whether your device is in compliance, please contact us for assistance.

## Check Your Property

Not all residences have cross-connection valve protection devices. To determine if your property has a device that requires testing, please contact our email hotline: [backflow@dpw.lacounty.gov](mailto:backflow@dpw.lacounty.gov).

## Contact Us

For more information on backflow prevention and to ensure the safety of our water supply, reach out to the Los Angeles County Waterworks Department. Together, we can safeguard the water systems that serve our communities.



# DRINKING WATER & YOUR HEALTH

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 U.S. Environmental Protection Agency's (USEPA) Safe Drinking Water Hotline (1-800-426-4791).

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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, that 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, that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities.

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. USEPA/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 (1-800-426-4791).

# LEAD & COPPER

In 2023, ten customers volunteered to have their taps tested for Lead and Copper. Thank you to our customers who participated in this monitoring program. None of the collected samples exceeded the action level (AL). The next round of lead and copper testing is scheduled for summer of 2026. If you would like to have your water tested for lead and copper, please contact [hbenmiled@dpw.lacounty.gov](mailto:hbenmiled@dpw.lacounty.gov). Los Angeles County Waterworks District appreciates your participation.

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. The 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 or at <http://www.epa.gov/lead>.



## SAMPLING RESULTS

During the past year, your water was tested for chemical, physical, radiological, and bacteriological parameters. We also tested for additional organic and inorganic chemicals that are not regulated. The tables included in this report list all the substances that were detected. The presence of these substances in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table are from the testing performed last year. The State allows us to monitor for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample is used.

## Table Definitions

**90th Percentile:** Out of every 10 homes sampled, 9 were at or below this level.

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

**Maximum Contaminant Level (MCL):** 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.

**Maximum Contaminant Level Goal (MCLG):** 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.

**Maximum Residual Disinfectant Level (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 (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.

**Primary Drinking Water Standard (PDWS):** MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

**Public Health Goal (PHG):** 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.

**ppb:** parts per billion (micrograms per liter)  
**ppm:** parts per million (milligrams per liter)  
**µS/cm:** MicroSiemens per centimeter  
**NTU:** Nephelometric turbidity unit  
**TON:** Threshold Odor Number  
*\*\* HAA5, chlorine, TTHMs, color, odor, turbidity and pH were measured within the distribution system*

**N/A:** Not applicable  
**ND:** Non-detect  
**NL:** Notification level  
**pCi/L:** PicoCuries per liter

PRIMARY DRINKING WATER STANDARDS						
SUBSTANCE (UNIT OF MEASURE)	MCL [MRDL]	PHG [MCLG]	YEAR SAMPLED	RANGE LOW-HIGH	AVERAGE LEVEL	TYPICAL SOURCE
Arsenic (ppb)	10	0.004	2023	ND - 3.7	2.4	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Chlorine** (ppm)	[4.0] as Cl <sub>2</sub>	MRDLG = 4 as Cl <sub>2</sub>	2023	1.02 - 1.66	1.45	Drinking water disinfectant added for treatment
Fluoride (ppm)	2	1	2023	0.7 - 0.9	0.8	Erosion of natural deposits; discharge from fertilizer and aluminum factories
Haloacetic Acids **(ppb)	60.0	N/A	2023	4.3 - 18	9.1	Byproduct of drinking water disinfection
Total Organic Carbon [TOC](ppm)	TT	N/A	2023	1.8 - 2.7	2.2	Various natural and manmade sources
Total Trihalomethanes **[TTHMs] (ppb)	80	N/A	2023	16 - 64	33	Byproduct of drinking water disinfection
Uranium (pCi/L)	20	0.43	2023	1.3 - 5	3.5	Erosion of natural deposits

## LEAD AND COPPER

Tap water samples were collected for lead and copper analyses from sample sites throughout the community

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AL	PHG	90TH% LEVEL	SITES ABOVE AL/ TOTAL SITES	TYPICAL SOURCE
Copper (ppm)	2023	1.3	0.3	0.73	0/10	Internal corrosion of household plumbing system; erosion of natural deposits; leaching from wood preservatives
Lead (ppb)	2023	15	0.2	0	0/10	Internal corrosion of household plumbing system; discharge from industrial manufactures; erosion of natural deposits

## SECONDARY DRINKING WATER STANDARDS

SUBSTANCE (UNIT OF MEASURE)	MCL [MRDL]	PHG [MCLG]	RANGE LOW-HIGH	AVERAGE LEVEL	TYPICAL SOURCE
Chloride (ppm)	500	N/A	30 - 40	36	Runoff/leaching from natural deposits
Specific Conductance ( $\mu\text{S}/\text{cm}$ )	1600	N/A	334 - 487	410	Runoff/leaching from natural deposits
Sulfate (ppm)	500	N/A	29 - 78	46	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (ppm)	1000	N/A	205 - 290	244	Runoff/leaching from natural deposits
Turbidity** (NTU)	5	N/A	0 - 0.2	0.9	Soil runoff

## OTHER PARAMETERS

SUBSTANCE (UNIT OF MEASURE)	RANGE LOW-HIGH	AVERAGE LEVEL
Alkalinity, Total (ppm)	86 - 102	93
Bicarbonate Alkalinity (ppm)	105 - 125	114
Calcium (ppm)	23 - 37	28
Hardness, Total (as $\text{CaCO}_3$ ) (ppm)	82 - 135	102
Magnesium (ppm)	6 - 11	8
pH**(Units)	6.5 - 8.5	7.7
Potassium (ppm)	2.6 - 5.7	4.2
Silica (ppm)	14 - 22	17
Sodium (ppm)	29 - 55	43

