



SOURCES OF WATER

During 2021, approximately 62 percent of the water served by the District was treated surface water and the remaining 38 percent was groundwater extracted from District wells. The District purchases its treated surface water from the Antelope Valley-East Kern Water Agency (AVEK). AVEK gets its water from the Sacramento River/San Joaquin Delta via the State Water Project.

The water from AVEK is treated at their Eastside Water Treatment Plant. The treatment plant receives water by gravity from the State Water Project. Screening and metering are provided at the head of the plant, followed by treatment chemical addition, flash mixing, tapered energy flocculation, clarification utilizing traveling bridges for sediment removal, and dual media filters. Chlorine is added during the final step to keep the water safe as it travels to your tap. The plant is capable of producing 10 million gallons per day, enough to serve the needs of 44,000 people. The District groundwater is also disinfected with chlorine for the same reason.

The California Department of Public Health updated the source water assessment in 2006 for the State Water Project, AVEK's water source. The assessment evaluates the vulnerability of water sources to contamination and helps determine whether more protective measures are needed. Water supplies from the Sacramento-San Joaquin River Delta are most vulnerable to contamination from municipal, industrial and agricultural activities. Also influencing the quality of water pumped from the Delta is the impact of the estuarial nature of the Delta and the naturally occurring salt-water intrusion which is dependent to a large extent on the inflow from the contributing rivers. A copy of the complete assessment can be obtained by contacting AVEK by phone at (661) 943-3201.

An assessment of the District groundwater wells was completed in 2008. The wells in the Lake Los Angeles area are considered vulnerable to septic systems and animal operations. A copy of the complete assessment may be viewed at: State Water Resources Control Board, Division of Drinking Water, Los Angeles Office, 500 North Central Avenue, Suite 500, Glendale CA 91203, or by phone at (818) 551-2004.



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 2021, 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, 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 2021. 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.

Waterworks District No. 40, Antelope Valley, Region 38



ANNUAL WATER QUALITY REPORT

Water testing performed in 2021





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).

MAKE WATER CONSERVATION A WAY OF LIFE

Los Angeles County Waterworks provides clean and high-quality water to its customers and offers water saving device rebate programs. The importance of saving water by developing simple habits such as: turning off the water while brushing teeth, finding and fixing leaks, washing full loads of laundry, and planting California friendly plants in the yard, are simple steps in achieving water use efficiency. Not only during drought periods, but in everyday life, water conservation should remain a high priority for all Los Angeles County Waterworks Districts customers. For more tips on how to conserve water and to learn more about the rebate programs, visit www.LACWaterworks.org or call (626) 300-3313. We can all take actions every day to conserve water for tomorrow!

Every Drop Travels A Long Way... Fix Your Leaks.



LEAD & COPPER

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 is tested for chemical, physical, radiological and bacteriological parameters. We also test 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 do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

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) **N/A:** Not applicable
ppm: parts per million (milligrams per liter) **ND:** Non-detect
µS/cm: MicroSiemens per centimeter **NL:** Notification level
NTU: Nephelometric turbidity unit **pCi/L:** PicoCuries per liter
TON: Threshold Odor Number
**** HAA5, chlorine, TTHMs, color, odor, turbidity and pH were measured within the distribution system**

PRIMARY DRINKING WATER STANDARDS							
SUBSTANCE (UNIT OF MEASURE)	MCL [MRDL]	PHG [MCLG]	GROUNDWATER			AVEK	TYPICAL SOURCE
			YEAR SAMPLED	RANGE LOW-HIGH	AVERAGE LEVEL	AVERAGE LEVEL (2021)	
Chlorine** (ppm)	[4.0] as Cl ₂	MRDLG = 4 as Cl ₂	2021	0.88 - 1.17	1	1.12	Drinking water disinfectant added for treatment
Chromium (ppb)	50	[100]	2020	12	12	ND	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Combined Radium (pCi/L)	5	0	2016	0.03	0.03	N/A	Erosion of natural deposits
Fluoride (mg/L)	2	1	2020	0.31	0.31	0.11	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha Particle Activity (pCi/L)	15	[0]	2016	4.04	4.04	N/A	Erosion of natural deposits
Gross Beta Particle Activity (pCi/L)	50	[0]	2016	4.14	4.14	N/A	Decay of natural and man-made deposits
Haloacetic Acids** [HAA5] (ppb)	60	N/A	2021	ND	ND	4.9	Byproduct of drinking water disinfection
Nitrate as N (ppm)	10	10	2021	1.8	1.7	0.9	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Total Trihalomethanes** [TTHMs] (ppb)	80	N/A	2021	ND - 9	5.6	41	Byproduct of drinking water disinfection
Uranium (pCi/L)	20	0.43	2020	1.6	1.6	N/A	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)	2020	1.3	0.3	0.19	0/31	Internal corrosion of household plumbing system; erosion of natural deposits; leaching from wood preservatives
Lead (ppb)	2020	15	0.2	1.2	0/31	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]	GROUNDWATER			AVEK	TYPICAL SOURCE
			YEAR SAMPLED	RANGE LOW-HIGH	AVERAGE LEVEL	AVERAGE LEVEL (2021)	
Chloride (ppm)	500	N/A	2020	22	22	37	Runoff/leaching from natural deposits; seawater influence
Odor** (TON)	3	N/A	2021	<1 - 2	<1	<1	Naturally-occurring organic materials
Specific Conductance (µS/cm)	1600	N/A	2020	470	470	460	Runoff/leaching from natural deposits; seawater influence
Sulfate (ppm)	500	N/A	2020	74	74	62	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (ppm)	1000	N/A	2020	280	280	280	Runoff/leaching from natural deposits
Turbidity** (NTU)	5	N/A	2021	0 - 0.25	0.06	0.05	Soil runoff

OTHER PARAMETERS

SUBSTANCE (UNIT OF MEASURE)	GROUNDWATER			AVEK
	YEAR SAMPLED	RANGE LOW-HIGH	AVERAGE LEVEL	AVERAGE LEVEL (2021)
Bicarbonate Alkalinity (ppm)	2020	140	140	120
Calcium (ppm)	2020	38	38	48
Magnesium (ppm)	2020	11	11	3
pH** (Units)	2020	7.4 - 7.8	7.6	7.5
Sodium (ppm)	2020	40	40	40
Total Alkalinity (ppm)	2020	120	120	96

