



Waterworks District No. 29, Malibu, and Marina Del Rey

SOURCES OF WATER

The Metropolitan Water District of Southern California (MWD) is a consortium of 26 cities and water districts that provides drinking water to nearly 19 million people in parts of Los Angeles, Orange, San Diego, Riverside, San Bernardino and Ventura counties. MWD supplies the District with water treated at the Jensen and Weymouth Treatment Plants. The District also has emergency connections with the Los Angeles Department of Water and Power and Las Virgenes Municipal Water District.

Colorado River water is conveyed via Metropolitan's 242-mile Colorado River Aqueduct from Lake Havasu on the California-Arizona border, to Lake Mathews near Riverside. The water is transported in the State Water Project's 444-mile California Aqueduct and serves customers in the San Francisco Bay, Central, and Southern California.

Jensen is the largest treatment plant west of the Mississippi River, delivering up to 750 million gallons per day. The water filtered through this plant originates in Northern California's mountains, rivers and streams and flows through the Sacramento-San Joaquin Delta before entering the State Water Project's 444-mile California Aqueduct.

The plant uses conventional techniques to treat your water. This includes the coagulation process where aluminum sulfate and other chemical additives cling to particles in the water. These particles stick together and form large particles that will settle to the bottom of large sedimentation basins. Then, the water flows through coal and sand for filtration. 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.

MWD completed its source water assessment in December 2002. The assessment evaluates the vulnerability of water sources to contamination and helps determine whether more protective measures are needed. The State Water Project is considered to be most vulnerable to urban and storm water runoff, wildlife, agriculture, recreation, and wastewater. A copy of the assessment can be obtained by contacting Metropolitan Water District at (213) 217-6850.

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 2018, 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 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 2018. 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. Bing Hua at (626) 300-3337. To view this report on the internet, please visit our website at www.lacwaterworks.org.



ANNUAL WATER QUALITY REPORT

Water testing performed in 2018





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).

HIGH WATER USE? GET A FREE WATER AUDIT

Are you experiencing water usage hike? You may have a leak.

The Los Angeles County Waterworks Districts offer comprehensive water audit. A certified consultant will perform indoor water review and leak check of fixtures including toilets, sinks, showers, dish and clothes washers. In addition, the consultant will review the irrigation system by energizing the irrigation timer and inspecting all the sprinklers, valves, and plants. After the survey is complete, customers will be provided with a detailed report that displays information on gallon usage per indoor device, a summary of irrigation equipment, a suggested irrigation schedule and recommendations on how to reduce overall water use.

To get your free water audit today, please email us at wateraudit@dpw.lacounty.gov.

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 less than once per year because the concentrations of these 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] | RANGE LOW-HIGH | AVERAGE LEVEL | Jensen Plant | | Weymouth Plant | | TYPICAL SOURCE |
| | | | | | RANGE LOW-HIGH | AVERAGE LEVEL | RANGE LOW-HIGH | AVERAGE LEVEL | |
| Aluminum (ppm) | 1 | 0.6 | N/A | N/A | ND - 75 | ND | ND - 220 | 105 | Erosion of natural deposits; residue from some surface water treatment processes |
| Barium (ppb) | 1000 | 2000 | N/A | N/A | ND | ND | 118 | 118 | Oil and metal refineries discharge; natural deposits erosion |
| Bromate (ppb) | 10 | 0.1 | N/A | N/A | ND - 6.4 | 5.2 | ND - 10 | 5 | Byproduct of drinking water disinfection |
| Chlorine** (ppm) | [4.0] as Cl ₂ | MRDLG = 4 as Cl ₂ | 1.43 - 1.80 | 1.7 | N/A | N/A | N/A | N/A | Drinking water disinfectant added for treatment |
| Fluoride (ppm) | 2 | 1 | N/A | N/A | 0.4 - 0.8 | 0.7 | 0.6 - 0.9 | 0.7 | Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories |
| Gross Alpha Particle Activity (pCi/L) | 15 | [0] | N/A | N/A | ND - 3 | ND | ND | ND | Erosion of natural deposits |
| Haloacetic Acids [HAA5]** (ppb) | 60.0 | N/A | 4.0 - 9.3 | 7.1 | N/A | N/A | N/A | N/A | Byproduct of drinking water disinfection |
| Nitrate (as NO ₃)(ppm) | 10 | 10 | N/A | N/A | 0.5 | 0.5 | ND | ND | Runoff and leaching from fertilizer use; septic tank and sewage; natural deposits erosion |
| Total Trihalomethanes [TTHMs]** (ppb) | 80 | N/A | 10.0 - 39.0 | 22.2 | N/A | N/A | N/A | N/A | Byproduct of drinking water disinfection |
| Uranium (pCi/L) | 20 | 0.43 | N/A | N/A | ND - 1 | ND | ND | ND | 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 SAMPLE D | AL | PHG | 90TH% LEVEL | SITES ABOVE AL/ TOTAL SITES | TYPICAL SOURCE |
|-----------------------------|---------------|----|-----|-------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Copper (ppm) | 2017 | 1 | 0.3 | 0.19 | 1/32 | Internal corrosion of household plumbing system; erosion of natural deposits; leaching from wood preservatives |
| Lead (ppb) | 2017 | 15 | 0.2 | 3.2 | 1/32 | Internal corrosion of household plumbing system; discharge from industrial manufactures; erosion of natural deposits |

SECONDARY DRINKING WATER STANDARDS

| SUBSTANCE (UNIT OF MEASURE) | RANGE LOW-HIGH | AVERAGE LEVEL | Jensen Plant | | Weymouth Plant | | TYPICAL SOURCE |
|------------------------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------------------------------------------------------------------------|
| | | | RANGE LOW-HIGH | AVERAGE LEVEL | RANGE LOW-HIGH | AVERAGE LEVEL | |
| Aluminum (ppb) | N/A | N/A | ND - 75 | ND | ND - 220 | 105 | Erosion of natural deposits; residue from some surface water treatment processes |
| Chloride (ppm) | N/A | N/A | 54 - 57 | 56 | 96 - 97 | 96 | Runoff/leaching from natural deposits; seawater influence |
| Odor Threshold** (TON) | ND - 3 | 1 | N/A | N/A | N/A | N/A | Naturally-occurring organic materials |
| Specific Conductance (µS/cm) | N/A | N/A | 428 - 444 | 436 | 897 - 1010 | 954 | Runoff/leaching from natural deposits; seawater influence |
| Sulfate (ppm) | N/A | N/A | 43 - 46 | 44 | 190 - 236 | 213 | Runoff/leaching from natural deposits; industrial wastes |
| Total Dissolved Solids (ppm) | N/A | N/A | 239 - 244 | 242 | 553 - 639 | 596 | Runoff/leaching from natural deposits |
| Turbidity** (NTU) | ND - 0.3 | 0.1 | N/A | N/A | N/A | N/A | Soil runoff |

OTHER PARAMETERS

| SUBSTANCE (UNIT OF MEASURE) | RANGE LOW-HIGH | AVERAGE LEVEL | Jensen Plant | | Weymouth Plant | |
|-----------------------------|----------------|---------------|----------------|---------------|----------------|---------------|
| | | | RANGE LOW-HIGH | AVERAGE LEVEL | RANGE LOW-HIGH | AVERAGE LEVEL |
| Alkalinity (ppm) | N/A | N/A | 68 - 76 | 72 | 107 - 117 | 112 |
| Calcium (ppm) | N/A | N/A | 19 - 21 | 20 | 57 - 69 | 63 |
| Hardness (ppm) | N/A | N/A | 84 - 94 | 89 | 233 - 274 | 254 |
| Magnesium (ppm) | N/A | N/A | 9.5 - 9.9 | 9.7 | 23 - 26 | 24 |
| pH** (units) | 7.49 - 8.14 | 7.91 | N/A | N/A | N/A | N/A |
| Potassium (ppm) | N/A | N/A | 2.4 - 2.5 | 2.4 | 4.4 - 5.0 | 4.7 |
| Sodium (ppm) | N/A | N/A | 45 - 46 | 46 | 94 - 103 | 98 |

LEAD IN SCHOOLS

Number of schools that requested lead sampling: 1