



July 2022
Annual Water Quality Report



Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

Water Quality Is Our Priority

Water quality continues to be a priority for Calleguas Municipal Water District. Our mission since the 1950s has been to provide our service area with a reliable supply of high quality, imported drinking water. A team of highly trained professionals works hard to ensure Calleguas' water supply meets all State and Federal water quality standards. This brochure provides information about the sources and quality of the water delivered by Calleguas in 2021. Included are details about where your water comes from, what it contains, and how it compares to State and Federal standards.

During the year, multiple tests for over 150 drinking water contaminants were performed on Calleguas' water supply to determine concentrations of mineral, physical, bacteriological, inorganic, organic, and radioactive constituents.

Once again, we are proud to report our system did not violate any water quality standards. For additional information on the quality of water delivered by Calleguas, please contact Amy Mueller at (805) 579-7117 or by email at amueller@calleguas.com. You can also visit our website at www.calleguas.com.

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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Our Mission:

To provide the service area with a reliable supplemental supply of regional and locally developed water in an environmentally and economically responsible manner.

Our Source Water

Calleguas' primary drinking water supply is obtained from the Feather River Watershed, located in the northern Sierras, and conveyed through the State Water Project. Colorado River water serves as a secondary supply source for the District and is transported through Metropolitan Water District's Colorado River Aqueduct.

Originating in northern California, State Water Project deliveries are conveyed over 500 miles through a network of reservoirs, aqueducts, and pump stations. The State Water Project supply is filtered and disinfected at Metropolitan's Joseph Jensen Filtration Plant in Granada Hills.

The Colorado River Aqueduct has been the backbone of Southern California's imported water supply for more than 70 years. Built and operated by Metropolitan, the 242-mile aqueduct delivers water from the Colorado River at Lake Havasu along the California/Arizona border. The Colorado River supply is filtered and disinfected at Metropolitan's F.E. Weymouth Treatment Plant in the City of La Verne.

Metropolitan Water District of Southern California has completed a source water assessment of both the State Water Project and Colorado River supply. The State Water Project source is considered to be most vulnerable to urban and storm water runoff, wildlife, agriculture, recreation, and wastewater. The Colorado River source is considered to be most vulnerable to contamination from recreation, urban and stormwater runoff, increasing urbanization in the watershed, and wastewater. A copy of this assessment can be obtained by contacting Metropolitan at (800) 354-4420.

Following treatment at the Jensen and Weymouth Plants, water is conveyed by pipeline through the San Fernando Valley to Calleguas' mile-long tunnel in the Santa Susana Mountains. While the Weymouth Filtration Plant employs similar treatment technology to the Jensen Filtration Plant, water quality of Colorado River supplies varies from that of State Project supplies. Information on the quality of the treated water can be found on the attached water quality tables.

The water is then distributed by Calleguas and its purveyors to an estimated 645,000 Ventura County residents, representing 75% of the County's population. Surplus supplies of imported water are stored in Lake Bard, the District's surface water reservoir near the City of Thousand Oaks, and the Las Posas groundwater basin underlying the City of Moorpark and surrounding area. Through the Las Posas Aquifer Storage and Recovery (ASR) project, Calleguas stores water for later use during Metropolitan system shutdowns and emergencies.

Visit www.calleguas.com for more information on the Las Posas ASR project and other Calleguas water supply reliability programs.



General Information About Source 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.

Contaminants that may be present in source water before we treat it 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 stormwater 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 stormwater 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 stormwater runoff, agricultural application, and septic systems.
- *Radioactive contaminants*, which can be naturally-occurring or be the result of oil and gas production and mining activities.



Our Treated Water

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

Calleguas achieves these standards through vigilant watershed protection and treatment techniques used at Metropolitan's Jensen and Weymouth Plants, as well as Calleguas' Lake Bard Water Filtration Plant. A good indicator of the effectiveness of our filtration system is the measurement of turbidity. Turbidity, or the cloudiness of water, is listed in the tables included in this report.



Water Quality Data

The following tables list all the drinking water contaminants we detected during the 2021 calendar year. The presence of these contaminants in the water does not necessarily indicate the water poses a health risk. Unless otherwise noted, the data presented in these tables is from testing done January 1 through December 31, 2021. The State requires we monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of water quality, is more than one year old.

| Parameter | Imported Surface Water Treated at Metropolitan's Jensen Plant | | Imported Surface Water Treated at Metropolitan's Weymouth Plant | | Locally Stored Surface Water Treated by Calleguas | | Major Sources in Drinking Water |
|-----------|---|--------------------|---|-------|---|-------|---------------------------------|
| | Average | Range | Average | Range | Average | Range | |
| | 85% | | 14% | | 1% | | |
| | Percent of Supply | | | | | | |
| | MCL [MRDL] | PHG (MCLG) [MRDLG] | | | | | |

PRIMARY DRINKING WATER STANDARDS - Mandatory Health-Related Standards

CLARITY (a)

| Turbidity (NTU) (TT) | Highest Single Value | 0.06 | 0.03 | 0.06 | Soil runoff |
|----------------------|------------------------|------|------|------|-------------|
| | % of samples ≤ 0.3 NTU | 100% | 100% | 100% | |

MICROBIOLOGICAL

| | | | | | | | |
|---|----|-----|---|--|--|--|--------------------------------------|
| Heterotrophic Plate Count Bacteria (CFU/mL) | TT | n/a | System-wide: Average = 0.5, Range = ND - 15.1 | | | | Naturally present in the environment |
|---|----|-----|---|--|--|--|--------------------------------------|

DISINFECTION BY-PRODUCTS AND DISINFECTANT RESIDUALS

| | | | | | | | | | |
|---|-----|-----|---|-----------|-----|-----------|---|----|---|
| Bromate (ppb) (b) | 10 | 0.1 | 4.5 | 1.2 – 9.8 | ND | ND – 7.0 | ND | ND | By-product of drinking water ozonation |
| Control of DBP Precursors as Total Organic Carbon (ppm) | TT | --- | 2.0 | 1.1 – 2.0 | 2.4 | 1.8 – 2.5 | TT | TT | Various natural & man-made sources; TOC is a medium for formation of DBPs |
| Haloacetic Acids (ppb) (c) | 60 | n/a | System-wide: Highest LRAA = 8.3, Range = 3.0 – 14.0 | | | | By-product of drinking water disinfection | | |
| Total Chlorine Residual (ppm) | [4] | [4] | System-wide: Highest LRAA = 2.3, Range = 1.7 – 2.6 | | | | Drinking water disinfectant added for treatment | | |
| Total Trihalomethanes (ppb) (c) | 80 | n/a | System-wide: Highest LRAA = 19.8, Range = 12.0 – 28.0 | | | | By-product of drinking water disinfection | | |

INORGANIC CHEMICALS

| | | | | | | | | | |
|--------------------|-------|-------|---|----------|------|----------|---|----|--|
| Aluminum (ppb) | 1,000 | 600 | 64 | ND – 120 | 148 | ND – 240 | ND | ND | Erosion of natural deposits; residual from water treatment process |
| Arsenic (ppb) | 10 | 0.004 | ND | ND | ND | ND | 4 | 4 | Erosion of natural deposits; runoff from orchards |
| Barium (ppm) | 1 | 2 | ND | ND | 0.11 | 0.11 | ND | ND | Erosion of natural deposits; discharge from oil & metal refineries |
| Fluoride (ppm) (d) | 2.0 | 1.0 | System-wide: Highest RAA = 0.7, Range = 0.7 - 1.0 | | | | Water additive that promotes strong teeth | | |
| Selenium (ppb) | 50 | 30 | ND | ND | ND | ND | 13 | 13 | Erosion of natural deposits; residual from water treatment process |

RADIOLOGICALS

| | | | | | | | | | |
|--------------------------------------|----|------|----|----------|-----|-----------|-----|-----|--------------------------------------|
| Gross Beta Particle Activity (pCi/L) | 50 | (0) | ND | ND | 5 | 4 - 6 | ND | ND | Decay of natural & man-made deposits |
| Uranium (pCi/L) | 20 | 0.43 | ND | ND - 3.0 | 2.0 | 1.0 – 3.0 | 1.3 | 1.3 | Erosion of natural deposits |

ABBREVIATIONS, DEFINITIONS, and NOTES

CFU/mL = Colony Forming Units per Milliliter | LRAA = Locational Running Annual Average | n/a = not applicable | ND = None Detected | NTU = Nephelometric Turbidity Units
 pCi/L = PicoCuries per Liter | ppb = parts per billion, or micrograms per liter (µg/L) | ppm = parts per million, or milligrams per liter (mg/L)

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.

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 pathogens.

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.

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.

Primary Drinking Water Standard = MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Treatment Technique (TT) = A required process intended to reduce the level of a contaminant in drinking water.

(a) The turbidity level of filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1.0 NTU at any time.

(b) Compliance for treatment plants that use ozone is based on a running annual average of monthly samples.

(c) Compliance is based on the LRAA of data collected at distribution system-wide monitoring locations. The range of all samples collected is included.

(d) The Metropolitan Water District (MWD) treats their water by adding fluoride to the naturally occurring level in order to help prevent dental caries in consumers. The fluoride levels in the treated water are maintained within a range of 0.6 - 1.2 ppm, as required by State Water Resources Control Board (SWRCB), Division of Drinking Water (DDW).

| Parameter | Percent of Supply | | Imported Surface Water Treated at Metropolitan's Jensen Plant | | Imported Surface Water Treated at Metropolitan's Weymouth Plant | | Locally Stored Surface Water Treated by Calleguas | | Major Sources in Drinking Water |
|-----------|-------------------|--------------------|---|-------|---|-------|---|-------|---------------------------------|
| | Secondary MCL | Notification Level | Average | Range | Average | Range | Average | Range | |
| | | | 85% | | 14% | | 1% | | |

SECONDARY DRINKING WATER STANDARDS—Aesthetic Standards

| Parameter | Secondary MCL | Notification Level | Average | Range | Average | Range | Average | Range | Major Sources in Drinking Water |
|------------------------------|---------------|--------------------|---------|-----------|---------|-----------|---------|-------|--|
| Aluminum (ppb) (a) | 200 | | 64 | ND – 120 | 148 | ND – 240 | ND | ND | Erosion of natural deposits; residual from water treatment process |
| Chloride (ppm) | 500 | | 72 | 65 – 80 | 96 | 95 – 97 | 97 | 97 | Runoff and leaching from natural deposits; seawater influence |
| Color (Units) | 15 | | 2 | 1 – 2 | 1 | 1 | ND | ND | Naturally-occurring organic materials |
| Specific Conductance (µS/cm) | 1,600 | | 558 | 519 – 598 | 964 | 962 – 965 | 703 | 703 | Substances that form ions when in water; seawater influence |
| Sulfate (ppm) | 500 | | 66 | 61 – 72 | 219 | 217 – 221 | 83 | 83 | Runoff and leaching from natural deposits |
| Total Dissolved Solids (ppm) | 1,000 | | 300 | 298 – 302 | 604 | 599 – 609 | 380 | 380 | Runoff and leaching from natural deposits |

ADDITIONAL PARAMETERS (Unregulated)

| Parameter | Secondary MCL | Notification Level | Average | Range | Average | Range | Average | Range | Major Sources in Drinking Water |
|-------------------------------------|---------------|--------------------|---------|-----------|---------|-------------|---------|-------|---------------------------------|
| Alkalinity (ppm) | NS | NS | 92 | 86 – 97 | 126 | 123 – 128 | 110 | 110 | |
| Boron (ppm) | NS | 1 | 0.18 | 0.18 | 0.13 | 0.13 | 0.20 | 0.20 | |
| Calcium (ppm) | NS | NS | 30 | 27 – 32 | 67 | 64 – 70 | 33 | 33 | |
| Chlorate (ppb) | NS | 800 | 88 | 88 | 55 | 55 | ND | ND | |
| Corrosivity (AI) (b) | NS | NS | 12.2 | 12.2 | 12.4 | 12.4 – 12.5 | 12.1 | 12.1 | |
| Hardness (Total Hardness) (ppm) | NS | NS | 122 | 110 – 133 | 272 | 270 – 273 | 144 | 144 | |
| Magnesium (ppm) | NS | NS | 12 | 12 – 13 | 26 | 25 – 26 | 15 | 15 | |
| pH (pH Units) | NS | NS | 8.3 | 8.3 – 8.4 | 8.1 | 8.1 – 8.2 | 8.1 | 8.1 | |
| Potassium (ppm) | NS | NS | 2.7 | 2.6 – 2.7 | 4.6 | 4.4 – 4.7 | 3.0 | 3.0 | |
| Sodium (ppm) | NS | NS | 64 | 61 – 68 | 98 | 95 – 101 | 73 | 73 | |
| Total Organic Carbon (ppm) | NS | NS | 2.0 | 1.1 – 2.0 | 2.4 | 1.8 – 2.5 | 0.9 | 0.9 | |
| N-Nitrosodimethylamine (NDMA) (ppt) | NS | 10 | 2.6 | 2.6 | ND | ND | ND | ND | |

ABBREVIATIONS, DEFINITIONS, and NOTES

AI = Aggressive Index

ND = None Detected

NS = No Standard

ppb = parts per billion, or micrograms per liter (µg/L)

ppm = parts per million, or milligrams per liter (mg/L)

ppt = parts per trillion or nanograms per liter (ng/L)

µS/cm = microSiemens/centimeter

Secondary Maximum Contaminant Level (MCL) = Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Notification Level = The level at which notification of the public water system's governing body is required.

(a) Aluminum has both primary and secondary standards. Compliance with the MCL is based on a running annual average. No secondary standard MCL exceedance occurred in the Jensen treatment plant effluent.

(b) AI measures the aggressiveness of water transported through pipes. Water with AI <10.0 is highly aggressive and would be very corrosive to almost all materials found in a typical water system. AI ≥12.0 indicates non-aggressive water. AI between 10.0 and 11.9 indicates moderately aggressive water.

Information for Customers with Special Water Needs

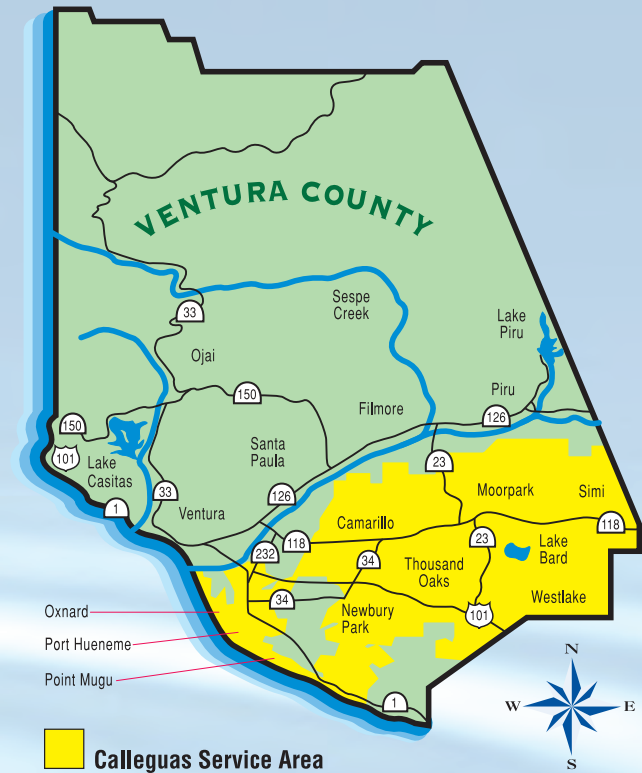
Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants 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).



Constituents Tested for and Not Detected

In addition to the information provided in the Summary of Water Quality Results, Calleguas also monitored for, but did not detect, many other contaminants during 2021. Some of those contaminants were:

| | | | |
|------------|----------------|----------------|------------------|
| Antimony | Foaming Agents | Pesticides | Tritium |
| Asbestos | Herbicides | Radium 226 | Volatile Organic |
| Beryllium | Lead | Radium 228 | Chemicals (VOCs) |
| Cadmium | Mercury | Silver | Zinc |
| Chromium 6 | MTBE | Strontium-90 | |
| Copper | Nitrite | Thallium | |
| Cyanide | Perchlorate | Total Chromium | |



Information on Lead in Household Plumbing

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. Your local utility 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/safewater/lead>.

Drinking Water Fluoridation

In 2007, Calleguas' wholesale water provider, Metropolitan Water District of Southern California, joined a majority of the nation's public water suppliers in systematically adding fluoride to drinking water at each of their five water treatment plants in order to help prevent tooth decay.

In line with recommendations from the Division of Drinking Water, as well as the U.S. Centers for Disease Control and Prevention, Metropolitan adjusted the natural fluoride level in the water, which ranges from 0.1 to 0.4 parts per million, to the optimal range for dental health of 0.7 parts per million. Fluoride levels in drinking water are limited under California state regulations at a maximum dosage of 2 parts per million.

Fluoride has been added to U.S. drinking water supplies since 1945. Of the 50 largest cities in the U.S., 43 fluoridate their drinking water.

For more information about the benefits of drinking water fluoridation, please visit the following websites: The American Dental Association at <https://www.ada.org/resources/community-initiatives/fluoride-in-water/fluoridation-facts> and U.S. Centers for Disease Control and Prevention at <https://www.cdc.gov/fluoridation/index.html>

Information on Radon

Water suppliers are required to provide information on the presence of radon in water sources. A known human carcinogen, radon is a radioactive gas that one cannot see, taste, or smell. Commonly found in soils throughout the United States, breathing air containing radon may lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. Radon can seep up through the ground and into homes and other structures through cracks and holes in foundations. Over time, concentrations of the gas can increase to high levels potentially exposing inhabitants to greater health risks. It is possible radon can also be released from tap water when used for showering, washing dishes, and other household activities. However, the concentration of radon released through tap water is in most cases assumed to be considerably lower than concentrations entering a home from underlying ground. If you are concerned about radon, you are advised to test the air in your home. Testing is inexpensive and easy. The EPA recommends taking measures to reduce radon levels in your home if concentrations are 4 PicoCuries per liter of air (pCi/L) or higher. For additional information, call your state radon program (1-800-745-7236), the EPA Safe Drinking Water Act Hotline at (1-800-426-4791), or call the National Safe Council Radon Hotline (1-800-SOS-RADON).

Water Conservation

Calleguas makes water conservation a priority and has long offered rebate programs for water conservation devices. Over the years, water saving technologies have advanced in both quality and effectiveness and these advancements have increased the number of rebate offerings.

Resource Links for Conservation

Emergency Water Conservation Program:

<https://www.calleguas.com/emergency-water-conservation.asp>

Education: <http://www.mwdh2o.com/inthecommunity/education-programs>

Rebates (SoCal WaterSmart): <http://socalwatersmart.com>

Regional Conservation Program: <http://www.bewaterwise.com>

California Native Plant Society: <http://www.cnps.org>

Gardening Classes: <http://www.bewaterwise.com/classes.html>

Water Wise Gardening in Ventura County:

<http://www.venturacountygardening.com>

More Information on Water Quality

Calleguas Municipal Water District

2100 Olsen Road • Thousand Oaks, CA 91360-6800

(805) 526-9323

<http://www.calleguas.com>

Metropolitan Water District of Southern California

Public Affairs • P.O. Box 54153 • Los Angeles, CA 90054-0153

(800) CALL MWD

www.mwdh2o.com

State Water Resources Control Board

Division of Drinking Water • 601 North 7th Street • Sacramento, CA 94234-7320

http://www.waterboards.ca.gov/drinking_water/programs

U.S. Environmental Protection Agency (WH-550)

Office of Ground Water & Drinking Water

401 M. Street, S.W. • Washington, D.C. 20460

Safe Drinking Water Hotline (800) 426-4791

<http://water.epa.gov/drink/index.cfm>

The Calleguas Municipal Water District Board of Directors meets on the first and third Wednesday of each month at 5:00 pm. The public is welcome; contact Calleguas at (805) 526-9323 for details on how to attend.



Steve Blois, President

Andres Santamaria, Vice President

Raul Avila, Secretary

Scott H. Quady, Treasurer

Andy Waters, Director

Anthony Goff, General Manager

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