



# Castaic Power Plant 2025 DRINKING WATER QUALITY REPORT

The 2025 Drinking Water Quality Report for Castaic Power Plant (Castaic) was prepared by the Los Angeles Department of Water and Power (LADWP). This annual Drinking Water Quality Report (also known as a Consumer Confidence Report) is required by the California State Water Resources Control Board, Division of Drinking Water (DDW) and is prepared in accordance with their guidelines. The report provides information about drinking water at Castaic during the 2025 calendar year (January 1, 2025 to December 31, 2025). Only those constituents that were detected are listed in this report.

## SUMMARY

The water provided to Castaic meets all state and federal drinking water requirements. Only the following substances with primary standards were detected at low levels in the water supplied to Castaic: Fluoride, Copper, Lead, Nitrate, Perchlorate, Toluene, Total Chlorine Residual, Turbidity, Haloacetic Acids, and Trihalomethanes. SWRCB-DDW allows LADWP to monitor for a number of contaminants less than once per year, because the concentrations of these contaminants do not change frequently. Some of the data, though representative, are more than a year old. For more information on these contaminants, please refer to Table 1 “Health Based Primary Drinking Water Substances Detected.”

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

## WHERE DOES MY WATER COME FROM?

The term “source water” describes where LADWP obtains the water you drink. All drinking water, tap or bottled, comes from either surface water or groundwater sources. Surface water sources include rivers, lakes, streams, ponds, or reservoirs. Groundwater sources are springs or wells.

Castaic is a non-transient, non-community water system that receives raw water from the State Water Project (California Aqueduct) via Pyramid Lake and the Elderberry Forebay. The California Aqueduct is operated by the California Department of Water Resources. The water served at Castaic is treated with polymer and ferric chloride for coagulation, and sodium bicarbonate for pH stabilization. Treatment for color and disinfection by-products (DBP) removal was added in 2017. Treated water is then filtered and chlorinated prior to being available for consumption. All monitoring and analyses of source and treated water are conducted by LADWP personnel.



### SOURCE WATER ASSESSMENT

In 2022, Metropolitan Water District completed an assessment of the watersheds that supply the California Aqueduct. These sources are vulnerable to fluctuations in water quality from the San Francisco Bay Delta. Other activities that impact water quality in these watersheds are livestock grazing, wildlife, and unauthorized public use of storage reservoirs. The impact to water quality from these activities is deemed to be minimal.

Regular monitoring for *Cryptosporidium* and *Giardia* indicates that their presence is infrequent and at very low levels.

### WHY IS DRINKING WATER MONITORED AND TREATED?

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 organics, 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 a 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 SWRCB-DDW 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 establish limits for contaminants in bottled water that provide the same protection for public 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. EPA's Safe Drinking Water Hotline (1-800-426-4791).

### **WATER QUALITY UPDATE**

There were no violations of drinking water standards at Castaic during 2025.

A Boil Water Notice was issued at Castaic on December 26, 2025, due to storm water run-off resulting in elevated turbidity in raw water. This Notice was issued as a precautionary measure, as elevated turbidity may interfere with the effectiveness of treatment operations. Continued monitoring was conducted and DDW approval was provided prior to cancelling the Boil Water Notice on January 28, 2026.

#### **Health Advisory for People with Weakened Immune Systems**

Although LADWP treats its water to meet drinking water standards, 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 (1-800-426-4791).

## **MONITORING OF REGULATED CONSTITUENTS**

There are over 110 regulated constituents (or contaminants). Utilities monitor for each constituent at varying frequencies based on the type of constituent and source water. For example, groundwater sources are generally sampled once every three years. Those constituents that pose acute risk require more frequent monitoring. Nitrate sampling is required annually, and bacteriological sampling is required monthly. Since most constituents are not detected in our water, only those constituents that are detected are listed in the tables.

### **DISINFECTION BYPRODUCTS (DBPs)**

Total trihalomethanes and haloacetic acids are byproducts of the disinfection process. The most recent analytical results show that levels of both contaminants are well below their respective Maximum Contaminant Levels (MCLs).

Some people who drink water containing haloacetic acids and/or trihalomethanes in excess of the MCL over many years may have an increased risk of getting cancer. Liver, kidney, or central nervous system problems may also be experienced with long term consumption of water containing trihalomethanes in excess of the MCL.

### **Turbidity**

Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites such as Cryptosporidium and Giardia that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

### **Lead in Drinking Water**

Lead and Copper Rule tap water sampling was conducted in July of 2023. The 90<sup>th</sup> percentile values for lead and copper at Castaic were below the Action Levels for both constituents. This data, as well as other water quality data, are shown in tables on the following pages. The next tap water sampling will be conducted in 2026.

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. LADWP is responsible for providing high quality drinking water and removing lead pipes from its distribution system, but it cannot control the materials used in premise plumbing or fixtures. Therefore, it is important for customers and property owners to identify plumbing materials, and remove those that don't meet the latest National Sanitation Foundation's (NSF's) lead-free standards. Use cold water for drinking and flush your tap for 1-2 minutes before drinking from it. You can do this in a water efficient manner by taking a shower, doing laundry, or a load of dishes. You can also use a certified NSF-53 filter to remove lead at the point of use. If you are concerned about lead in your water and wish to have your water tested, contact LADWP's Water Quality Hotline at (213) 367-3182. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

## MONITORING OF UNREGULATED CONSTITUENTS

There are contaminants/constituents found in drinking water that are not yet regulated. Some of these “unregulated contaminants/constituents” are monitored because they could be candidates for future regulations or are of interest to our consumers.

### TERMS USED IN THIS REPORT

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

**DLR (Detection Limit for Reporting Purposes):** The DLR is the lowest level at which all DDW certified laboratories can accurately and reliably detect a compound. The DLR provides a standardized basis for reporting purposes.

**MCL (Maximum Contaminant Level):** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the PHGs and MCLGs (see below) as economically and technologically feasible. For certain contaminants, compliance with the MCL is based on the average of all samples taken throughout the year.

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

**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 Goal):** 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.

**ND:** Not Detected by Laboratory Analysis.

**NL (Notification Levels) - State:** Health-based advisory levels established by DDW for chemicals in drinking water that lack maximum contaminant levels (MCLs). When chemicals are found at concentrations greater than their notification levels, certain requirements and recommendations apply.

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

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

**SDWS (Secondary Drinking Water Standard):** Highest level a constituent allowed in drinking water that may affect the taste, odor or appearance. SDWSs are set by the U.S. EPA.

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

**CASTAIC POWER PLANT – 2025 CALENDAR YEAR**

*Table 1: Health-Based Primary Drinking Water Substances Detected*

Constituents	Major Source in Drinking Water	Sampled	Units	MEET PRIMARY STANDARD / ACTION LEVEL?	Primary Standard (MCL)	PHG	Castaic Power Plant Water Quality	
							Range	Average
Fluoride	Erosion of natural deposits	2025	µg/L	YES	2,000	1,000	130	130
Copper (at-the-tap) <sup>a</sup>	Internal corrosion of interior water plumbing systems	2023	µg/L	YES	AL=1300	300	number of samples exceeding AL = 0 out of 5	90th Percentile value = 121
Lead (at-the-tap) <sup>a</sup>	Internal corrosion of interior water plumbing systems	2023	µg/L	YES	AL=15	0.2	number of samples exceeding AL = 0 out of 5	90th Percentile value = 1
Nitrate (as N)	Runoff and leaching from fertilizer use; erosion of natural deposits	2025	µg/L	YES	10,000	10,000	390	390
Perchlorate	Industrial Use	9/2025	µg/L	YES	6	1	0.71	0.71
Toluene	Discharge from petroleum or chemical factories	2025	µg/L	YES	150	150	ND – 45.6	11.60
Total Chlorine Residual (as Cl <sub>2</sub> ) <sup>b</sup>	Drinking water disinfectant added for treatment	2025	mg/L	YES	[MRDL = 4.0 (as Cl <sub>2</sub> )]	[MRDL = 4.0 (as Cl <sub>2</sub> )]	0.87-2.59	1.65
Haloacetic Acids [HAA5] <sup>c</sup>	Disinfection by-product	2025	µg/L	YES	60	none	7.4-19.1	12.9
Total Tri-Halomethanes <sup>c</sup>	Disinfection by-product	2025	µg/L	YES	80	none	39.2-59.3	49.6
Turbidity <sup>d</sup>	Soil runoff	2025	NTU	YES	TT	TT	% reading ≤0.3: 100%	Highest: 0.22

**Footnotes for Table 1**

a. At-the-tap monitoring in 2023 was conducted annually, as required by the Lead and Copper Rule. A system is out of compliance if the 90th percentile value of all samples taken exceeds the Action Level of 15 µg/L and 1300 µg/L of lead and copper, respectively.

**Footnotes for Table 1 (continued)**

- b. Values reflect Running Annual Average (RAA). RAA is a calculated average of all samples collected within the previous 12-month period, which may include test data from the previous calendar year.
- c. The federal Stage 2 Disinfectants/Disinfection Byproducts Rule (Stage 2 DBPR) requires compliance monitoring and reporting for total trihalomethanes (TTHM) and five haloacetic acids (HAA5) based on Locational Running Annual Averages (LRAAs) of established monitoring locations.
- d. Turbidity is a measure of the cloudiness of the water and is a good indicator of water quality and filtration performance. The Primary Drinking Water Standard for turbidity at the treatment plant is less than or equal to 0.3 NTU in at least 95% of the measurements taken in any month, and must not exceed 1.0 NTU for more than eight consecutive hours. High turbidity can hinder the effectiveness of disinfectants and can harbor pathogens. The reporting requirement for treatment plant turbidity is to report the highest single measurement in the calendar year and the lowest monthly percentage of measurements less than or equal to 0.3 NTU. Turbidity is monitored at 15-minute intervals all year round.

**CASTAIC POWER PLANT – 2025 CALENDAR YEAR**

*Table 2: Regulated Substances with Secondary Drinking Water Standards Detected*

Constituents	Major Source in Drinking Water	Sampled	Units	Secondary MCL	Castaic Power Plant Water Quality
					<b>Level Detected</b>
Chloride	Runoff/leaching from natural deposits	2025	mg/L	500	63.1
Color	Naturally-occurring organic materials	2025	ACU	15	3
Manganese	Leaching from natural deposits	2025	µg/L	50	10.1
pH	Naturally-occurring dissolved gases and minerals	2025	Units	6.5 – 8.5	7.2-9
Specific Conductance	Substances that form ions when in water	2025	µS/cm	1600	414-1100
Sulfate (as SO <sub>4</sub> )	Natural constituent	2025	mg/L	500	39.5
Total Dissolved Solids (TDS)	Runoff/leaching from natural deposits	2025	mg/L	1000	261
Turbidity	Soil runoff	2025	NTU	5	0.2

*Table 3: Unregulated Drinking Water Substances Detected*

Constituents	Major Source in Drinking Water	Sampled	Units	Castaic Power Plant Water Quality Level Detected
Total Alkalinity (as CaCO <sub>3</sub> )	Natural constituent	2025	mg/L	94.8
Boron	Natural constituent	2025	µg/L	161
Calcium	Natural constituent	2025	mg/L	26.3
Magnesium	Natural constituent	2025	mg/L	10.8
Sodium	Natural constituent	2025	mg/L	46.6
Total Hardness (as CaCO <sub>3</sub> )	Natural constituent	2025	mg/L	110

**Abbreviations for Tables**

- mg/L = milligrams per Liter (equivalent to parts per million)
- NTU = Nephelometric Turbidity Units
- ND = Not Detected
- µS/cm = microSiemens per centimeter
- µg/L = micrograms per Liter (equivalent to parts per billion)

## GENERAL INFORMATION

This annual Drinking Water Quality Report (also known as a Consumer Confidence Report) is required by the California State Water Resources Control Board, Division of Drinking Water and is prepared in accordance with their guidelines. LADWP, the largest municipal utility in the nation, was established more than 100 years ago. The utility provides a reliable and safe water and electric supply to the City's approximately 4 million residents and businesses. LADWP is governed by a five-member Board of Water and Power Commissioners, appointed by the Mayor and confirmed by the City Council. The Board meets regularly on the second and fourth Tuesdays of each month at 10:00 a.m.

Meetings are held at:           **Los Angeles Department of Water and Power**  
  111 North Hope Street, Room 1555H, Los Angeles, CA 90012-2694

The meeting agenda is available to the public the Thursday prior to the week of the meeting. You can access the Board agenda and view the meetings live online at <http://www.ladwp.com/board>.

For questions regarding information in this report, please contact the Water Quality Hotline at 213-367-3182