



2023

WATER QUALITY REPORT

**WILLOWS
DISTRICT**



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

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WELCOME

California Water Service (Cal Water) is committed to providing a reliable supply of safe, clean water to our customers and communities, 24 hours per day, 7 days per week, 365 days per year. As water quality regulations have become more stringent, we have added or adjusted treatment to confirm that the water we deliver continues to meet or surpass all standards—because protecting our customers' health and safety is our highest priority.

IN THIS SYSTEM IN 2023, WE CONDUCTED 4,727 TESTS ON 723 WATER SAMPLES FOR 159 CONSTITUENTS. WE ARE PLEASED TO CONFIRM THAT WE MET EVERY PRIMARY AND SECONDARY FEDERAL AND STATE WATER QUALITY STANDARD LAST YEAR.

But, our promise to provide quality, service, and value means more than just treating and testing water. It means having expert professionals available to assist with routine services safely and efficiently. It means having personnel available to handle emergencies around the clock. It means maintaining and upgrading the infrastructure needed to transport water from its source through a network of pumps, tanks, and pipes to your tap. It also means that, even with costs increasing across the country, we do everything we can to operate as efficiently as possible to keep your water service affordable.

I encourage you to read this year's water quality report, also called your Consumer Confidence Report, as it details any constituents detected in your water supply in 2023 and shows how your water compares to federal and state standards. It also provides information on hot topics and steps we take to protect your health and safety.

If you have any questions, we are here to help. You can contact your local office by phone or by using the Contact Us form at www.calwater.com. You can also get water service news on our web site and via our Facebook, X (formerly Twitter), and Instagram pages. If you're an account holder, you can find updates in your monthly bill and should keep your contact information up to date by visiting ccu.calwater.com to ensure you receive emergency and other important information.

Sincerely,
Tavis Beynon, District Manager, Willows District

Willows District
1070 West Wood Street, Suite A-1
Willows, CA 95988
(530) 934-4735

ACTION ITEMS

There were no significant issues in your water system in 2023, and we have no recommended action items for our customers in this area.



YOUR WATER SYSTEM

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YOUR WATER

Cal Water has provided high-quality water utility services in Willows since 1927. To meet the needs of our Willows customers, we utilize four wells, each with hexavalent chromium treatment, two storage tanks, and 35.7 miles of pipeline to pump and deliver one million gallons of local groundwater per day. In 2015, we received a \$5 million grant to offset the costs of developing and implementing hexavalent chromium treatment locally.

CHLORINATION

Chlorination is the addition of chlorine to drinking water systems. It is the most common type of drinking water disinfection, killing bacteria, viruses, and other microorganisms that cause disease or immediate illness. Chlorine is effective and continues to keep water safe as it travels through pipelines to the consumer's tap.

WATER RESOURCE SUSTAINABILITY

Cal Water helps our customers conserve water by offering programs and incentives to reduce indoor and outdoor water use, develop more efficient habits, and educate the next generation about the importance of managing water resources sustainably. We also continue to invest diligently in our infrastructure to reduce the amount of water lost to pipeline leaks and, in 2022, completed an updated assessment of the impacts of climate change on water supply and demand. Whether in wet or dry years, it's important that we make saving water every day a way of life. Using water wisely will ensure that we have enough water in periods of drought and for generations to come.

Visit www.calwater.com/conservation for details.

If you have any questions or concerns, please contact our local office by phone at (530) 934-4735 or through the Contact Us link at www.calwater.com.

THE WATER QUALITY LAB

Water professionals collect samples from throughout the water system for testing at our newly upgraded, state-of-the-art water quality laboratory, which is certified each year through the stringent Environmental Laboratory Accreditation Program (ELAP).

Our laboratory team tests the water for 326 constituents with equipment so sensitive it can detect levels as low as one part per trillion. In order to maintain the ELAP certification, all of our scientists must pass blind-study proficiency tests for every water quality test performed. Water quality test results are entered into our Laboratory Information Management System (LIMS), a sophisticated software program that enables us to react quickly to changes in water quality and analyze water quality trends in order to plan effectively for future needs.

CROSS-CONNECTION CONTROL

So that the high-quality water we deliver is not compromised in the distribution system, Cal Water has a robust cross-connection control program in place. Cross-connection control is critical to ensuring that activities on customers' properties do not affect the public water supply. Our cross-connection control specialists ensure that all of the existing backflow prevention assemblies are tested annually, assess all connections, and enforce and manage the installation of new commercial and residential assemblies.

Backflow can occur when certain pressure conditions exist either in our distribution system or within the customer's plumbing, so our customers are our first line of defense. A minor home improvement project—without the proper protections—can create a potentially hazardous situation, so careful adherence to plumbing codes and standards will keep the community's water supply remains safe. Please be sure to utilize the advice or services of a qualified plumbing professional.

Many water-use activities involve substances that, if allowed to enter the distribution system, would be aesthetically displeasing or could even present health concerns.

Some common cross-connections are:

- Garden hoses connected to a hose bib without a simple hose-type vacuum breaker (available at a home improvement store).
- Improperly installed toilet tank fill valves that do not have the required air gap between the valve or refill tube.
- Landscape irrigation systems that do not have the proper backflow prevention assembly installed on the supply line.

The list of materials that could potentially contaminate the water system is vast. According to the United States Environmental Protection Agency (EPA), a wide variety of substances have contaminated drinking water systems throughout the country as a result of poor cross-connection control. Examples include:

- Antifreeze from a heating system.
- Lawn chemicals from a garden hose or sprinkler head.
- Blue water from a toilet tank.
- Carbonated water from a soda dispenser.

Customers must ensure that all plumbing is in conformance with local plumbing codes. Additionally, state law requires certain types of facilities to install and maintain backflow prevention assemblies at the water meter. Cal Water's cross-connection control staff will determine whether you need to install a backflow prevention assembly based on water uses at your location.

By the end of 2002, Cal Water had submitted to the Division of Drinking Water (DDW) a Drinking Water Source Assessment and Protection Program (DWSAPP) report for each water source in the water system. The DWSAPP report identifies possible sources of contamination to aid in prioritizing cleanup and pollution prevention efforts. All reports are available for viewing or copying at our office.

We encourage customers to join us in our efforts to prevent water pollution and protect our most precious natural resource.

The water sources in your district are considered most vulnerable to the following activities associated with contaminants detected in the water supply:

- Agricultural drainage
- Parks
- RV parks
- Sewer collection systems
- Schools
- Chemical/petroleum processing or storage
- Farm chemical distributor/application service
- Pesticide/fertilizer/petroleum storage and transfer areas
- Fertilizer/pesticide/herbicide applications
- Grazing
- Septic systems
- Irrigated crops

The water sources are considered most vulnerable to the following activities, for which no associated contaminant has been detected:

- Fleet/truck/bus terminals
- Utility stations (maintenance areas)
- Underground storage tanks (confirmed leaking tanks)
- Above-ground storage tanks
- Gas stations
- Automobile repair shops
- Chemical/petroleum pipelines
- Machine shops
- Dredging
- Wells (water supply and agricultural)

A copy of this assessment may be viewed at:

Division of Drinking Water, Valley District Office, 364 Knollcrest Drive, Redding, CA 96002

YOUR 2023 RESULTS

FLUORIDE

State law requires Cal Water to add fluoride to drinking water if public funding is available to pay for it, and it is a practice endorsed by the American Medical Association and the American Dental Association to prevent tooth decay. In this area, low levels of fluoride occur naturally, and Cal Water doesn't add any to the water supply. Show the table in this report to your dentist to see if he or she recommends giving your children fluoride supplements.

WATER HARDNESS

Hardness is a measure of the magnesium, calcium, and carbonate minerals in the water. Water is considered soft if its hardness is less than 75 parts per million (ppm), moderately hard at 75 to 150 ppm, hard between 150 and 300 ppm, and very hard at 300 ppm or higher.

Hard water is generally not a health concern, but it can have an impact on how well soap lathers and is significant for some industrial and manufacturing processes. Hard water may also lead to mineral buildup in pipes or water heaters.

Some people with hard water opt to buy a water softener for aesthetic reasons; however, some water softeners add salt to the water, which can cause problems at wastewater treatment plants. Additionally, people on low-sodium diets should be aware that some water softeners increase the sodium content of the water.

For more information on water hardness, visit www.calwater.com/video/hardness.

The current water quality table for your service area shows an average hardness of 173 ppm.

HEXAVALENT CHROMIUM

In 2017, a California Superior Court ruled that, in setting the maximum contaminant level (MCL) for chromium-6, the State Water Resources Control Board (State Board) did not sufficiently consider the economic feasibility of complying with the MCL established in 2014. The Court ruled that the State Board needed to withdraw the MCL for chromium-6 and establish a new MCL after more adequately considering the economic feasibility of compliance. The same draft MCL of 10 ppb was subsequently released in 2022, and it was adopted by the State Board in April 2024. At Cal Water, we have already completed installation of treatment for our system, so water served to our customers will meet the standard.

More information about fluoridation, oral health, and related issues can be found on the [DDW web site](http://www.calwater.com).

For general information on water fluoridation, visit us online at www.calwater.com.



POSSIBLE CONTAMINANTS

All 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 EPA Safe Drinking Water Hotline at (800) 426-4791.

The sources of drinking water (both tap and bottled) include rivers, lake, 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 human activities. Prior to entering the distribution system, source water with constituents over maximum contaminant levels is treated to reduce levels to meet standards set by public health experts.

Contaminants that may be present in source water 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 compounds, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural applications, and septic systems.
- Radioactive contaminants, which can be naturally occurring or the result of oil and gas production and mining activities.

In order to keep tap water safe to drink, the EPA and DDW prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised people, such as those with cancer undergoing chemotherapy, those who have undergone organ transplants, and those with HIV/AIDS or other immune system disorders; some elderly people; and infants can be particularly at risk from infections. These people should seek advice from their health care providers about drinking water contaminants. EPA and Centers for Disease Control and Prevention (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.

As the issue of lead in water continues to be top of mind for many Americans, Cal Water wants to assure you about the quality of your water. We are compliant with health and safety codes mandating use of lead-free materials in water system replacements, repairs, and new installations. We have no known lead service lines in our systems. We test and treat (if necessary) water sources to confirm that the water delivered to customer meters meets all water quality standards and is not corrosive toward plumbing materials.

The water we deliver to your home meets lead standards. However, 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 (for example, lead solder used to join copper plumbing, and brass and other lead-containing fixtures).

Cal Water is responsible for providing high-quality drinking water to our customers' meters, but cannot control the variety of materials used in properties' 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 by a certified lab. More information about lead in drinking water can be found through the Safe Drinking Water Hotline (1-800-426-4791) or at www.epa.gov/safewater/lead.

TESTING FOR LEAD IN SCHOOLS

The State of California required that all public schools built before 2010 test for lead in their drinking water by July 1, 2019. We are committed to supporting our school districts' efforts to protect students and ensure that the drinking water at their school sites are below regulatory limits. We worked with all school districts in our service area that serve kindergarten through 12th grade to develop sampling plans, test samples, and conduct follow-up monitoring, if needed, for corrective actions.

Please see our [Testing for Lead in Schools](#) web page for more information. For specific information regarding local school data, see the [state web portal lead sampling in schools page](#).

LEAD AND COPPER RULE

The Lead and Copper Rule requires us to test water inside a representative number of homes that have plumbing most likely to contain lead and/or lead solder to determine the presence of lead and copper or any action level exceedance. An action level is the concentration of a contaminant which, when exceeded, triggers corrective

actions before it becomes a health concern. If action levels are exceeded, either at a customer's home or system-wide, we work with the customer to investigate the issue and/or implement corrosion control treatment to reduce lead levels.

LEAD SERVICE LINE INVENTORY (LSLI)

Protecting our customers' health and safety is our highest priority. As part of this commitment, we have been working to identify and replace any old customer water service lines and fittings that may contain lead. California Senate Bill (SB) 1398 required all water utilities in California to develop an inventory of all distribution service line materials, and submit a list of known lead service lines to the state by 2018. A list of unknown service lines that may contain lead, along with a plan for replacement, was due to the state by July 1, 2020. Known lines must be replaced as soon as possible.

More information regarding LSLI and specific data for each water system can be found on the [health and safety code page of the state web site](#).

In your system, results from our lead monitoring program, conducted in accordance with the Lead and Copper Rule, were below the action level for the presence of lead.

In April 2024, the EPA adopted the final water quality regulation for certain per- and polyfluoroalkyl substances (PFAS):

- MCL of 4 ppt for PFOS and PFOA.
- MCL of 10 ppt for PFHxS, PFNA, and GenX.
- Hazard Index of 1.0 combined for PFHxS, PFNA, PFBS, and GenX.

Water systems must begin monitoring for these PFAS within three years (2027), and must comply with the regulation within five years (2029).

Protecting our customers' health and safety is our highest priority, and Cal Water is committed to complying with all requirements set by the public health experts. We have been preparing for the EPA regulation and its potential impact on—and any treatment needed in—our systems, and already evaluated the impact of the proposed regulation so that we could be better prepared to comply with the final MCLs.

We also have protocols to test our water sources for compliance with the new MCLs. We have long followed recommendations from DDW, and even went beyond by testing every active source in our California systems years ago. Although not required at the time, we believed it was the right thing to do. In any cases across our service areas where detections were above the levels at which state public health experts have recommended water suppliers take action (the previous response level), we took the affected sources out of service until treatment was/can be installed.

Our active water sources are in compliance with current California response levels, based on the running annual average at each site. The response level, which is the level at which a water system should make operational changes to reduce the concentration of a compound, is set with a margin of protection for all people (including sensitive populations) over a lifetime of exposure.

Additionally, we believe a comprehensive approach is needed to properly address the situation. We urged the EPA to establish a consistent, science-based standard as quickly as feasible, and strongly supported state legislation that will prohibit the sale and use of certain products that contain PFAS, require the certification of accurate testing methods for PFAS, and establish a publicly accessible database that houses the sources of PFAS entering water supplies. We have also filed lawsuits to hold PFAS manufacturers responsible—and ultimately prevent our customers from bearing the costs of treatment, to the extent possible—and are pursuing grants where available to further offset customer cost impacts.

As background, PFAS are manmade compounds that have been used to make carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) that are resistant to water, grease, or stains. These compounds are also used for firefighting at airfields, which is one way they have found their way into groundwater in certain areas.

Studies indicate that long-term exposure to PFAS over certain levels could have adverse health effects, including developmental effects to fetuses during pregnancy or infants; cancer; or impacts on liver, immunity, thyroid, and other functions. Potential health effects related to PFAS are still being studied, and research is still evolving on this issue.

**More information on
PFAS is available
on the DDW web site.**

IN COMPLIANCE: Does not exceed any applicable MCL, SMCL, or action level, as determined by DDW. For some compounds, compliance is determined by averaging the results for one source over a one-year period.

LEVEL 1 ASSESSMENT: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in the system.

LEVEL 2 ASSESSMENT: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in the system on multiple occasions.

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 (SMCLs) 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.

NOTIFICATION LEVEL (NL) AND RESPONSE LEVEL (RL): Health-based advisory levels for unregulated contaminants in drinking water. They are used by DDW to provide guidance to drinking water systems.

PRIMARY DRINKING WATER STANDARDS (PDWS): MCLs, MRDLs, and TTs for contaminants that affect health along with their monitoring, reporting, 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 without regard to technological or economic feasibility.

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

TREATMENT TECHNIQUE (TT): A required process intended to reduce the level of a contaminant in drinking water.

VARIANCES AND EXEMPTIONS: Permissions from the State Water Resources Control Board (State Board) to exceed an MCL or not comply with a treatment technique under certain conditions.

STANDARD ABBREVIATIONS

AL	Action level
Max	Maximum
MFL	Million fibers per liter
Min	Minimum
N/A	Not applicable
ND	Constituent not detected
NL	Notification level
NTU	Nephelometric turbidity unit
pCi/L	Picocuries per liter (a measure of radiation)
ppb	Parts per billion or micrograms per liter (µg/L)
ppm	Parts per million or milligrams per liter (mg/L)
ppq	Parts per quadrillion or picogram per liter (pg/L)
ppt	Parts per trillion or nanograms per liter (ng/L)
RAA	running annual average
µS/cm	Microsiemens/centimeter

TABLE INTRODUCTION

Every year, Cal Water performs hundreds of thousands of tests to monitor the quality of our water. If any contaminants are detected, they are included in this annual water quality report. However, most of the contaminants we test for are not detected, so they are not listed.

See the [Potential Contaminants web page](#) for a complete list of contaminants we test for.

In the table, water quality test results are divided into four major sections: “Primary Drinking Water Standards,” “Secondary Drinking Water Standards,” “State-Monitored Contaminants with Notification Levels,” and “Unregulated Compounds.” Primary standards protect public health by limiting the levels of certain constituents in drinking water. Secondary standards are set for substances that don’t impact health but could affect the water’s taste, odor, or appearance. Some unregulated substances (hardness and sodium, for example) are included for your information. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

SUBSTANCE SOURCES

DI	Byproduct of drinking water disinfection	IO	Substances that form ions when in water
DS	Drinking water disinfectant added for treatment	IW	Industrial waste
EN	Naturally present in the environment	OC	Runoff from orchards; glass and electronics production waste
ER	Erosion of natural deposits	OD	Discharges of oil-drilling waste and from metal refineries
FE	Human and animal waste	RU	Runoff/leaching from natural deposits
FL	Water additive that promotes strong teeth; discharge from fertilizer and aluminum factories	SO	Soil runoff
FR	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage	SW	Seawater influence
IC	Internal corrosion of household plumbing systems	WD	Leaching from wood preservatives
IM	Discharge from industrial manufacturers	UR	Unregulated constituents with no source listed and that do not have standardized “source of substance” language

Our testing equipment is so sensitive, it can detect constituents as small as 1 part per trillion. That is equivalent to 1 inch over 15 million miles.



2023 WATER QUALITY

PRIMARY DRINKING WATER STANDARDS

Distribution System-Wide								
Microbiological	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Highest Monthly		Source
Fecal coliform and E. coli	2023	Positive Samples	0 ¹	(0)	Yes	0		FE
Groundwater								
Inorganic Chemicals	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Range	Average	Source
Arsenic	2023	ppb	10	0.004 (0)	Yes	2.3–3.2	2.7	ER, OC
Barium	2018–2023	ppm	1	2 (2)	Yes	0.14–0.19	0.15	ER, OD
Fluoride	2021–2023	ppm	2	1 (4.0)	Yes	0.17–0.39	0.30	ER, FL
Nitrate as N	2023	ppm	10	10 (10)	Yes	1.1–3.3	2.0	ER, FR
Distribution System-Wide								
Lead and Copper	Year Tested	Unit	AL	PHG (MCLG)	In Compliance	90 th Percentile	Samples > AL	Source
Copper	2023	ppm	1.3	0.3	Yes	0.11	0 of 22	IC, ER, WD
Lead	2023	ppb	15	0.2	Yes	ND	0 of 22	IC, IM, ER
Distribution System-Wide								
Disinfection Byproducts	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Range	Highest Annual Average	Source
Total haloacetic acids (THAA)	2023	ppb	60	N/A	Yes	ND	ND	DI
Total trihalomethane (TTHM)	2023	ppb	80	N/A	Yes	ND	ND	DI
Distribution System-Wide								
Disinfectants	Year Tested	Unit	MRDL	MRDLG	In Compliance	Range	Average	Source
Free chlorine	2023	ppm	4	4	Yes	0.33–0.91	0.59	DS

¹ Exceeds if routine and repeat samples are total coliform-positive and either is E. coli-positive, system fails to take repeat samples following E. coli-positive routine sample, or system fails to analyze total coliform-positive repeat sample for E. coli.

2023 WATER QUALITY

SECONDARY DRINKING WATER STANDARDS

Contaminants	Year Tested	Unit	SMCL	PHG (MCLG)	In Compliance	Groundwater		Source
						Range	Average	
Chloride	2021–2023	ppm	500	N/A	Yes	8.0–18	11	RU, SW
Specific conductance	2021–2023	US	1600	N/A	Yes	440–620	530	SW, IO
Sulfate	2021–2023	ppm	500	N/A	Yes	12–73	39	RU, IW
Total dissolved solids	2021–2023	ppm	1000	N/A	Yes	250–400	323	RU
Turbidity (groundwater)	2021–2023	NTU	5	N/A	Yes	0.13–0.20	0.15	SO

STATE-REGULATED CONTAMINANTS WITH NOTIFICATION LEVELS

Contaminants	Year Tested	Unit	NL	PHG (MCLG)	In Compliance	Groundwater		Source
						Range	Average	
Perfluorooctanoic acid (PFOA) ¹	2020–2023	ppt	5.1	N/A	Yes	ND–2.8	0.36	UR
Vanadium	2023	ppb	50	N/A	Yes	9.0–12	11	UR

UNREGULATED COMPOUNDS AND UNREGULATED CONTAMINANT MONITORING RULE (UCMR)

Constituents	Year Tested	Unit	NL	PHG (MCLG)	In Compliance	Groundwater		Source
						Range	Average	
Alkalinity (total)	2021–2023	ppm	N/A	N/A	N/A	200–250	233	UR
Calcium	2021–2023	ppm	N/A	N/A	N/A	21–37	28	UR
Hexavalent chromium ²	2023	ppb	N/A	0.02	N/A	3.1–20	5.1	UR
Hardness (total)	2021–2023	ppm	N/A	N/A	N/A	140–220	173	UR
Magnesium	2021–2023	ppm	N/A	N/A	N/A	22–31	26	UR
Sodium	2021–2023	ppm	N/A	N/A	N/A	34–52	46	UR
pH	2023	Units	N/A	N/A	N/A	7.4–8.1	7.8	UR

¹ Per- and polyfluoroalkyl substances (PFAS) are a broad class of chemicals, which includes PFOA and perfluorooctanesulfonic acid (PFOS), perfluorobutanesulfonic acid (PFBS), and perfluorohexanesulfonic acid (PFHxS). NLs have been established for these four compounds. NLs are non-regulatory, health-based advisory levels established for constituents that may be candidates for regulation in the future. Studies indicate that long-term exposure to PFOS/PFOA/PFHxS over certain levels could have adverse health effects, including developmental effects to fetuses during pregnancy or breastfed infants; cancer; or liver, immunity, thyroid, and other effects. Cal Water is working closely with DDW and EPA to conduct extensive monitoring and identify the best available treatment technology for treatment of PFAS.

² The previous MCL of 10 ppb for hexavalent chromium was withdrawn on September 11, 2017, and there was no MCL in effect in 2023. A draft MCL of 10 ppb was released in 2022. To protect public health and in anticipation of a new MCL, however, we have continued treating for hexavalent chromium through previously installed treatment systems. There was only one result over 10 ppb in 2023 of 20 ppb, and confirmation samples confirmed expected levels below 10 ppb.



Thanks for taking the time
to learn more about your
water quality.

Even more information awaits you at calwater.com.

Visit our web site to get information about your account, water-use history, water rates, and water system. You will also find water-saving tips and news about water conservation programs and rebates available in your area.

- ▶ [Conservation resources](#)
- ▶ [Lead in water](#)
- ▶ [Water treatment and disinfection](#)
- ▶ [Protecting the water supply](#)



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