2020 Water Quality Report

TRAVIS DISTRICT

Travis Air Force Base Distribution System





WELCOME

From the Manager

YOUR WATER SYSTEM

Your Water System
The Water Quality Lab
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DWSAPP

2020 TEST RESULTS

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Welcome

Since 1926, California Water Service (Cal Water) has been committed to providing safe, reliable, high-quality water to our customers and communities. When the coronavirus pandemic began in 2020, access to clean water became particularly top of mind. During these difficult times, our commitment to our customers remained as strong as ever.

In this system in 2020, we conducted 3,434 tests on 665 water samples for 104 constituents. We are pleased to confirm that we met every primary and secondary federal and state water quality standard last year.

Our promise to provide quality, service, and value means more than just treatment and testing. It means having expert professionals available to assist with routine services in a safe and efficient manner. It means having personnel available to handle emergencies 24 hours per day. It means maintaining and upgrading the infrastructure needed to transport water 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 affordable.

I encourage you to review this annual water quality report, also called your Consumer Confidence Report, as it details any constituents detected in your water supply in 2020 and shows how your water compares to federal and state standards. It also provides information on current water quality issues and steps we are taking to protect your health and safety.

If you have any questions, we are here to assist you. You can reach us by phone or email at our local Customer Center, or online at www.calwater.com. You can also get water service news on our web site, via our Facebook, Twitter, and Instagram pages, and in your monthly bill. And, please be sure your contact information with Cal Water is up to date by visiting ccu.calwater.com, to ensure we can reach you with important emergency and other information.

Sincerely,

Jack Caldwell, Local Manager, Travis District

[Travis District 867 Ellis Drive Travis AFB, CA 94535 (707) 424-2575]



Cal Water began operating the Travis Air Force Base water system in 2019. We meet the water supply needs of our valued Travis District customer and users with water from the City of Vallejo's surface water treatment plant.

If you have any questions, suggestions, or concerns, please contact our local Customer Center, either by phone at (707) 424-2575 or through the Contact Us link at www.calwater.com.

USING WATER WISELY

As we await more information on the long-term water-use regulations from the State of California, it's important that we make water-use efficiency a way of life. Using water wisely will ensure that we have enough water in dry years and for generations to come.

Cal Water has a robust water conservation program. Visit www.calwater.com/conservation for details.



Water Quality

THE WATER QUALITY LAB

from throughout the water system for testing at our state-of-the-art is certified each year through the stringent Environmental (ELAP). Scientists, chemists, and microbiologists test the water for 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 quality test performed. Water quality test results are entered into our software program that enables us trends in order to plan effectively for

CROSS-CONNECTION CONTROL

To ensure 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 ensure 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 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.



Source Water Assessments evaluate the quality of the water used as a drinking water supply for local communities and examine the water's vulnerability to possible contamination from activities within the watershed. Source Water Assessments were completed in 2012 for the Putah South Canal and in 2016 for Lakes Frey and Madigan. The North Bay Aqueduct's (Sacramento Delta) assessment was completed in 2016.

The list at right summarizes the vulnerability of each water source and provides a contact if you would like copies of the complete assessments.

Putah South Canal

- Most vulnerable activities include illegal activities and dumping, and herbicide applictions
- Moderately vulnerable activities include roads and streets, storm drain discharge, and recreational areas
- Contact: Alex Rabidoux, Solano County Water Agency, (707) 451-6090

North Bay Aqueduct

- Most vulnerable activities include grazing animals* and runoff from grazing land
- Moderately vulnerable activities include runoff from agricultural land
- Contact: Alex Rabidoux, Solano County Water Agency, (707) 451-6090

^{*}Associated with detected contaminants.



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, Cal Water adds fluoride to achieve levels considered optimum for good dental health Show the table in this report to your dentist to see if he or she recommends giving children fluoride supplements.

More information about fluoridation, oral health, and related issues can be found on the DDW web site at www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.html. For general information on water fluoridation, visit us online at www.calwater.com.

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 77 ppm.

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 United States Environmental Protection Agency (EPA) Safe Drinking Water Hotline at (800) 426-4791.

The sources of drinking water (both tap and bottled) 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 human activity.

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 chemicals, which are byproducts 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 the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the EPA and DDW prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. 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. 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 ensure 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 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 on the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

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.

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. In 2018, the Department of Defense (DoD) 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.

For more information, please see our Testing for Lead in Schools web page. For specific information regarding local school data, see the state web portal.

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 (AL). 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. The results published below in the Lead and Copper section are from 2018. They were provided by DoD before Cal Water acquired the water system.

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 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 are replaced as soon as possible.

More information regarding LSLI and specific data for each water system can be found on the state web site.

PFOA and PFOS

PFOS and PFOA are manmade compounds used prevalently in firefighting foams and to make carpets, clothing, fabrics for furniture, paper packaging for food, cookware, and other items resistant to water, grease, fire, or stains. They are also used in a number of industrial processes. They are part of a larger group of chemicals referred to as per- and poly-fluoroalkyl substances (PFAS).

In early 2020, DDW announced lower response levels for PFOA and PFOS (10 ppt for PFOA, and 40 ppt for PFOS) from the previous level of 70 ppt combined. The notification levels (5.1 ppt for PFOA, and 6.5 ppt for PFOS) were not changed.

Knowing that these are constituents of emerging concern, Cal Water had identified and tested water sources in 2019 and earlier that would be more likely to have these compounds present. With the updated response levels, we have conducted additional testing for these constituents in all of our water systems.

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

Although there is no Maximum Contaminant Level (MCL) set for these substances, we have proactively monitored sources and will continue to do so. Even though it is not required by the state, we believe it is the right thing to do. When an MCL is established by DDW for these compounds, we will continue to ensure our water sources are in compliance with any set standard.

While we are doing our part to treat the water and meet the standards the public health experts have set, it's important that our population as a whole focuses on being good stewards of the environment and takes steps to prevent impacting the water supply. Additionally, Cal Water has filed a lawsuit against a group of companies that manufactured and sold firefighting foam products that released the PFOS and PFOA into the environment, to ensure the responsible parties bear the costs of treating for these chemicals, not our customers. We are also encouraging the EPA to establish a consistent, science-based standard as quickly as feasible, and strongly support state legislation prohibiting the sale and use of certain products that contain PFAS and requiring the certification of accurate testing methods for PFAS.

More information on PFOS and PFOA is available on the DDW web site.

Key Definitions

MAXIMUM CONTAMINANT LEVEL (MCL)

The highest level of a contaminant that is allowed in drinking water. Primary MCLs protect public health and are set as close to the PHGs (or MCLGs) as are economically and technologically feasible. Secondary MCLs (SMCLs) relate to the odor, taste, and appearance of drinking water.

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.

REGULATORY ACTION LEVEL (AL)

The concentration of a contaminant which, if exceeded, triggers treatment or other required action by the water provider.

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 EPA.

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 are set by the EPA and do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NON-DETECT (ND)

The constituent was not detected.

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 STANDARD (PDWS)

MCLs and MRDLs 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's Office of Environmental Health Hazard Assessment without regard to cost or available detection and treatment technologies.

TREATMENT TECHNIQUE (TT)

A required process intended to reduce the level of a contaminant in drinking water.

Table Introduction

CAL WATER TESTS YOUR WATER FOR MORE THAN
140 REGULATED CONTAMINANTS AND DOZENS OF
UNREGULATED CONTAMINANTS. THIS TABLE LISTS
ONLY THOSE CONTAMINANTS THAT WERE DETECTED.

In the table, water quality test results are divided into three major sections: "Primary Drinking Water Standards," "Secondary Drinking Water Standards," 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
- DS Drinking water disinfectant added for treatment
- EN Naturally present in the environment
- ER Erosion of natural deposits
- FE Human and animal waste
- FL Water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
- FR Runoff and leaching from fertilizer use; leaching from septic tanks and sewage
- IC Internal corrosion of household plumbing systems
- IM Discharge from industrial manufacturers
- IO Substances that form ions when in water
- IW Industrial waste
- OM Naturally occurring organic materials
- PH Inherent characteristic of water
- RU Runoff/leaching from natural deposits
- SO Soil runoff
- SW Seawater influence
- VA Various natural and manmade sources
- WD Leaching from wood preservatives
- 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 mineral traces as small as 1 part per trillion. That is equivalent to 1 inch in over 15 million miles.

Vater Quality

Primary Drinking Water Standards

						Distribution	System-Wide	
Microbiological	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Highes	t Monthly	Source
Total coliform	2020	Positive samples	1	(0)	Yes		1	EN
Fecal coliform and E. coli	2020	Positive samples	1 ¹	(0)	Yes	0		FE
						CVW ²		
Inorganic Chemicals	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Range	Average	Source
Fluoride ³	2020	ppm	2	1 (4.0)	Yes	0.63-0.85	0.73	ER, FL
						Distribution System-Wide		
Lead and Copper	Year Tested	Unit	AL	PHG (MCLG)	In Compliance	90 th Percentile	Samples > AL	Source
Copper	2018	ppm	1.3	0.3	Yes	0.33	0 of 30	IC, ER, WD
		ppm ppb	1.3 15	0.3 0.2	Yes Yes	0.33 ND	0 of 30 0 of 30	IC, ER, WD IC, IM, ER
Copper	2018 2018		_					
Copper Lead	2018 2018		_			ND		
Copper Lead	2018 2018		_			ND	0 of 30	
Copper Lead Schools that requested lead samp	2018 2018 ling in 2020: 0	ppb	15	0.2	Yes	ND Distribution	0 of 30 System-Wide Highest Annual	IC, IM, ER

						Bistribution System wide		
Disinfection Byproducts	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Range	Highest Annual Average	Source
Haloacetic acids	2020	ppb	60	n/a	Yes	9.5–30	24	DI
Total trihalomethanes	2020	ppb	80	n/a	Yes	27–59	51	DI
						Distribution System-Wide		
Disinfectants	Year Tested	Unit	MRDL	MRDLG	In Compliance	Range	Average	Source
Free chlorine	2020	ppm	4	4	Yes	0.20–1.9	0.60	DS

¹ This means one total coliform-positive routine sample and one repeat sample, with one of these also being E. coli-positive.

² Travis Air Force Base water was supplied by City of Vallejo Water (CVW) surface water in 2020.

³ Fluoride is added to the water supply purchased from CVW. CVW treats its 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 DDW.

2020 Water Quality (Continued)

						CVW		
CVW—Turbidity and TOC	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Highest Level	Lowest Monthly Percent <0.3 NTU	Source
Turbidity ¹	2020	NTU	TT	n/a	Yes	0.1	99%	SO
	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Running Annual Average	Lowest Monthly Percent Removal Ratio	Source
Total organic carbon (TOC) ²	2020	% removal ratio	TT	n/a	Yes	>1	1.7	VA

Secondary Drinking Water Standards

						cvw		
Contaminants	Year Tested	Unit	SMCL	PHG (MCLG)	In Compliance	Range	Average	Source
Chloride	2020	ppm	500	n/a	Yes	12	12	RU, SW
Color	2019	UNITS	15	n/a	n/a	ND-5.0	2.5	ОМ
Specific conductance	2020	US	1600	n/a	Yes	250	250	SW, IO
Sulfate	2020	ppm	500	n/a	Yes	24	24	RU, IW
Total dissolved solids	2020	ppm	1000	n/a	Yes	140	140	RU

¹ For surface water systems, the treatment technique dictates that the turbidity level of the filtered water be less than or equal to 0.3 NTU in 95% of measurements taken each month and not exceed 1 NTU at any time. Turbidity is a measurement of cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system.

² TOC has no health effects; however, TOC provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes and haloacetic acids. The treatment technique dictates that a removal ratio of 1 or higher must be achieved. Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects such as liver, kidney, or nervous system problems, and may lead to an increased risk of cancer. Concerns regarding disinfection byproducts are based upon exposure over many years.

State Regulated Contaminants with Notification Levels

						cvw		
Contaminants	Year Tested	Unit	NL	PHG (MCLG)	In Compliance	Range	Average	Source
Vanadium	2020	ppb	50	n/a	Yes	4.1	4.1	UR

Unregulated Compounds

						CVW		
Constituents	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Range	Average	Source
Alkalinity (total)	2020	ppm	n/a	n/a	n/a	75	75	UR
Calcium	2020	ppm	n/a	n/a	n/a	15	15	UR
Hardness (total)	2020	ppm	n/a	n/a	n/a	77	77	UR
Magnesium	2020	ppm	n/a	n/a	n/a	9.8	9.8	UR
Potassium	2020	ppm	n/a	n/a	n/a	1.8	1.8	UR
Sodium	2020	ppm	n/a	n/a	n/a	23	23	UR
рН	2020	STD U	n/a	n/a	n/a	7.7	7.7	PH

Thank you.

Thanks for taking the time to learn more about your water quality! Even more information awaits you at www.calwater.com.

Visit our web site to get information about your account, water-use history, water rates, and water system.



