



RICHARD SVINDLAND President

A Message from California American Water President RICHARD SVINDI AND

Dear California American Water Customer,

Having easy access to safe, clean water is something that can be easily taken for granted. At California American Water, our top priority is providing safe, reliable drinking water to our more than 690,000 customers.

I am pleased to share with you our 2018 Consumer Confidence Report, which is a testament to the hard work and dedication of our employees who ensure high-quality drinking water.

QUALITY: We have rigorous safeguards in place to ensure the water we provide to you meets or surpasses increasingly stringent water quality standards. Across California, we conducted approximately 652 different tests on 25,239 water samples for 2,994 constituents last year. We are proud and pleased to confirm that we met every primary and secondary state and federal water quality standard.

SERVICE: Last year, we invested more than \$74 million in water infrastructure in the California communities we serve. This investment ensures and maintains the safety and reliability of the facilities and technology needed to draw, treat, and distribute water.

VALUE: While costs to provide water service continue to increase across the country, our investments help us provide high-quality water service that remains an exceptional value, costing customers about a penny per gallon.

We are proud to continue to supply water that meets or surpasses all state and federal water quality standards. If you have any questions or concerns, you can contact us by phone, email, online at www.californiaamwater.com, or in person at our local Customer Center. Please take the time to review this report. It provides details about the source and quality of your drinking water, using data from water-quality testing conducted for your local system between January and December 2018.

Sincerely,

RICHARD SVINDLAND

June Clarke

President



Once again, we proudly present our Annual Water Quality Report, also referred to as a Consumer Confidence Report (CCR). This CCR covers compliance testing completed through December 2018. We are pleased to tell you that our compliance with state and federal drinking water regulations remains exemplary. As in the past, we are committed to delivering the best quality drinking water. To that end, we remain vigilant in meeting the challenges of source water protection, water conservation, environmental compliance, sustainability and community education while continuing to serve the needs of all our water users.

ABOUT CALIFORNIA AMERICAN WATER (CAW) AND AMERICAN WATER (AW)

California American Water, a subsidiary of American Water (NYSE: AWK), provides high-quality and reliable water and/or wastewater services to more than 690,000 people. With a history dating back to 1886, American Water is the largest and most geographically diverse U.S. publicly traded water and wastewater utility company. The company employs more than 7,100 dedicated professionals who provide regulated and market-based drinking water, wastewater and other related services to more than 14 million people in 46 states and Ontario, Canada. American Water provides safe, clean, affordable and reliable water services to our customers to make sure we keep their lives flowing. For more information, visit amwater.com and follow American Water on Twitter, Facebook and LinkedIn.





The Consumer Confidence Report (CCR) is an annual water quality report containing data that California American Water and all associated water purveyors collected during the past year. CCRs let consumers know what contaminants, if any, are in their drinking water as well as any related health effects. CCRs also include details about where your water comes from and how it is treated. Additionally, they educate customers on what it takes to deliver safe drinking water and highlight the need to protect drinking water sources.

In 2018, we collected numerous samples at various sampling points in your water system. The water quality data presented is a combination of data compiled from our nationally recognized water quality laboratory and local commercial laboratories; all certified in drinking water testing by the State Board's Division of Drinking Water. If you have any questions about this report or your drinking water, please contact our Customer Service Center at (888) 237-1333.



The Larkfield water system is served by wells that pump water from the Glen Ellen formation. California American Water uses drinking water treatment technologies to remove naturally occurring arsenic, iron, and manganese as well as chlorinating the water to ensure that it meets bacteriological quality standards. In 2018, California American Water purchased water from the Sonoma County Water Agency (SCWA). Water purchased from SCWA originates from Ranney Collectors and wells along the Russian River in the Santa Rosa Plain. The water supply is distributed for residential and commercial use.

NOTICE OF SOURCE WATER ASSESSMENT (SWA)

An assessment of the drinking water sources in the Larkfield system was completed in October 2001. Although not associated with any detected contaminants, the sources are considered most vulnerable to the following: agricultural drainage, sewer collection systems, golf courses, high-density housing, parks, storm drain discharge points, drinking water treatment plants, gas stations, utility stations (maintenance areas), agricultural and irrigation wells, parking lots, and dry cleaners.

A copy of the completed assessment may be viewed at: State Water Resources Control Board, Division of Drinking Water, Sonoma District Office, 50 D Street, Suite 200, Santa Rosa, CA 95404.



The sources of drinking 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 can pick up substances resulting from animal or human activity and even radioactive material. In order to ensure that tap water is safe to drink, USEPA and the State Water Resources Control Board set regulations limiting the amount of certain contaminants in water provided by public water systems. Contaminants that may be present in source water include:

ORGANIC CHEMICAL CONTAMINANTS

including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and may also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.

INORGANIC CONTAMINANTS.

such as salts and metals, which can be naturally occurring or may 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.

MICROBIAL CONTAMINANTS.

such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

RADIOACTIVE CONTAMINANTS,

which can be naturally occurring or may be the result of oil and gas production and mining activities.



FLUORIDE

Fluoride is a naturally occurring substance. It can be present in drinking water from two sources:

- **1. By nature** when groundwater comes into contact with fluoride-containing minerals naturally present in the earth; or
- 2. By a water purveyor through addition of fluoride to the water they are providing in the distribution system.

In the Larkfield system, all fluoride in the water is from naturally occurring minerals and the concentrations are well below the limits for contaminants in drinking water set by the USEPA and State Water Resources Control Board, Division of Drinking Water.

ARSENIC

While your drinking water meets the state and federal standard for arsenic, it does contain low levels of arsenic. The standard set for arsenic balances the current understanding of arsenic's possible health effects against the costs of removing it from drinking water. The U.S. Environmental Protection Agency continues

to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems. Compliance with the arsenic standard is based on the running annual average of four consecutive quarters of monitoring.



LEAD

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. California American Water 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 two minutes before using water for drinking or cooking.

If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants. 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 www.epa.gov/lead.

TESTING LEAD IN PUBLIC SCHOOLS

To safeguard water quality in California's K-12 public schools, California Assembly Bill 746 requires community water systems to test lead levels, by July 1, 2019, in drinking water at all California public, K-12 school sites that were constructed before January 1, 2010. California American Water serves 4 public school sites in the Mark West Union School District in the Larkfield water system and has completed the testing at all sites. Additional testing was completed for 2 private school sites. California law makes school districts responsible for informing parents of lead testing results for their schools. Please contact your child's school or school district to get detailed results on lead testing at your child's school.



RADON

Radon is a radioactive gas that you cannot see, taste, or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. You should pursue radon removal for your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that are not too costly. For additional information, call your State radon program (1-800-745-7236), the U.S. EPA Safe Drinking Water Act Hotline.



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 USEPA's Safe Drinking Water Hotline at (800) 426-4791.

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 may be particularly at risk for infections. These people should seek advice about drinking water from their health care providers. USEPA/CDC guidelines on appropriate means to lessen the risk of infection by microbial contaminants are available through the USEPA's Safe Drinking Water Hotline at (800) 426-4791.



Water is sampled and tested consistently throughout the year to ensure the best possible quality. Contaminants are measured in:

- Parts per million (ppm) or milligrams per liter (mg/L)
- Parts per billion (ppb) or micrograms per liter (µg/L)
- Parts per trillion (ppt) or nanograms per liter (ng/L)
- Grains per gallon (grains/gal) A measurement of water hardness often used for sizing household water softeners. One grain per gallon is equal to 17.1 mg/L of hardness.
- MicroSiemens per centimeter (μS/cm) A measurement of a solution's ability to conduct electricity.
- Nephelometric Turbidity Units (NTU) A measurement of the clarity of water. Turbidity in excess of 5 NTU is noticeable to the average person.
- PicoCuries per liter (pCi/L) A measurement of radioactivity in water.

PARTS PER MILLION: PARTS PER BILLION: PARTS PER TRILLION:

1 second 1 second 1 second in 12 days in 32 years in 32,000 years

1 second 1 second 32,000 days years years



California American Water conducts extensive monitoring to ensure that your water meets all water quality standards. The results of our monitoring are reported in the following tables. While most monitoring was conducted in 2018, certain substances are monitored less than once per year because the levels do not change frequently. For help with interpreting this table, see the "Definition of Terms" section.

- 1 Starting with a **Substance**, read across.
- **2** Year Sampled is usually in 2018 or year prior.
- 3 MCL shows the highest level of substance (contaminant) allowed.
- 4 MCLG is the goal level for that substance (this may be lower than what is allowed).
- **5** Average Amount Detected represents the measured amount (less is better).
- **6** Range tells the highest and lowest amounts measured.
- **7** A **No** under **Violation** indicates government requirements were met.
- 8 Major Sources in Drinking Water tells where the substance usually originates.

Unregulated substances are measured, but maximum allowed contaminant levels have not been established by the government.

Water Quality Results

Regulated Substances

Substance (Units)	Year Sampled	MCL	PHG (MCLG)	Larkfiled District			SCWA				
				Average Amount			Average Amount	Range	Violation	Major Sources In Drinking Water	
				Detected	Low	High	Detected	Low - High			
Arsenic (ppb)	2018	10	0.004	4.5	2.3	6.3	ND	ND		Erosion of natural deposits; Runoff from orchards; Glass, and electronics production wastes	
Fluoride (ppm) (naturally occurring)	2018	2	1	0.11	ND	0.15	ND	ND		Erosion of natural deposits; Discharge from fertilizer and aluminum factories	

Distribution System Monitoring (Larkfield system service area)

Chlorine (ppm)	2018	MRDL=4.0	MRDLG = 4.0	0.77	0.45	1.2	NA	NA	No	Treatment chemical used to disinfect drinking water
Haloacetic Acids (ppb) ¹	2018	60	NA	5.0	NA		NA	NA	No	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb) ¹	2018	80	NA	20	NA		NA	NA	No	By-product of drinking water disinfection

¹The "Average Amount Detected" is the Highest Running Annual Average.

Secondary Substances

Substance (Units)		SMCL ²	Larkfiled District			SCWA				
	Year Sampled		Arciugo		nge	Average	Range	Violation	Major Sources In Drinking Water	
			Amount Detected	Low	High	Amount Detected	Low - High			
Chloride (ppm)	2018	500	13	7.0	19	5.6	5.2 - 7.0	No	Runoff/leaching from natural deposits; Seawater influence	
Copper (ppm)	2018	1	ND	ND	0.09	ND	ND	No	Internal corrosion of household plumbing system erosion of natural deposits; leaching from wood preservatives	
Iron (ppb)	2018	300	ND	ND	410	ND	ND	No	Leaching from natural deposits; Industrial wastes	
Manganese (ppb)	2018	50	ND	ND	23	ND	ND	No	Leaching from natural deposits	
Odor	2018	3	ND	ND	1.2	ND	ND	No	Naturally-occurring organic materials	
Specific Conductance (umhos/cm)	2018	1,600	344	280	410	246	220 - 270	No	Substances that form ions when in water; Seawater influence	
Sulfate (ppm)	2018	500	10	8	15	15	11 - 29	No	Runoff/leaching from natural deposits; Industrial wastes	
Total Disolved Solids (ppm)	2018	1,000	214	160	280	136	130 - 150	No	Runoff/leaching from natural deposits	
Turbidity (NTU)	2018	5	0.4	ND	1.9	0.04	0.02 - 2.00	No	Soil runoff	
Boron (ppm) ³	2018	14	0.21	0.19	0.24	ND	ND	No		
Vanadium (ppb) ⁵	2018	50 ⁴	1	ND	5	ND	ND	No	Naturally Occuring Metal	

² Secondary MCLs are set to protect the odor, taste, and appearance of drinking water. These contaminants are not considered to present a risk to human health at the SMCL.

Lead and Copper (tap water samples)

Substance (Units)	Year Sampled	Action Level	PHG (MCLG)	Number of Samples	Amount Detected (90th Percentile)	Homes Above Action Level	Violation	Major Sources in Drinking Water
Copper (ppm)	2016	1.3	0.3	21	0.384	0	No	Internal corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	2016	15	0.2	21	3	0	No	Internal corrosion of household plumbing systems; Erosion of natural deposits; Discharges from industrial manufacturers

³ Based on studies in laboratory animals, the babies of some pregnant women who drink water containing boron in excess of the Notification Level may have an increased risk of developmental effects.
4 Notification Level, not a secondary MCL. The babies of some pregnant women who drink water containing vanadium in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals.
5 The babies of some pregnant women who drink water containing vanadium in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals.

Additional Water Quality Parameters of Interest

This table shows average levels of additional water quality parameters that are often of interest to consumers. The averages shown are calculated from the levels detected at each source used to supply water is 2018 and in distribution system. Values may vary from day-to-day. There are no health-based limits for these substance in drinking water.

		Larkfile	ed District		SCWA		
Substance (Units)	Year Sampled	Average Amount Detected	Range		Average Amount Detected	Range	
		Average Amount Detected	Low	High	Average Amount Detected	Low - High	
Alkalinity as CaCO3 (ppm)	2018	148	120	170	103	96 - 110	
Calcium (ppm)	2018	23	23 17		21	19 - 23	
Magnesium (ppm)	2018	12	9	19	13	12 - 14	
Potassium (ppm)	2018	4.3	2.8	7.0	1.1	1.0 - 1.2	
рН	2018	7.6	7.2	8.1	7.4	7.21 - 7. 51	
Total Radon 222 (pCi/L)	2018	N/A N/A			165	145 - 185	
Silica (ppm)	2018	51	26	83	ND	ND	
Sodium (ppm)	2018	31	23	38	8.5	8.3 - 8.8	
Total Hardness as CaCO3 (ppm)	2018	106	90	140	105	98 - 112	
Total Hardness as CaCO3 (grains/gallon)	2018	6.2	5.3	8.2	6.5	5.7 - 6.5	

[&]quot;Hardness" is the sum of polyvalent cations present in the water, generally magnesium and calcium. The cations are usually naturally occurring.

[&]quot;Sodium" refers to the salt present in the water and is generally naturally occurring.



Action Level (AL): The concentration of a contaminant, which, DDW and the consumer. Not an enforceable standard. if exceeded, triggers treatment or other requirements, that a water system must follow.

DDW: Division of Drinking Water

LRAA: Locational Running Annual Average

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set water, or micrograms per liter. as close to the MCLGs as feasible using the best available treatment technology. Secondary MCLs (SMCL) 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 allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL): The highest level of 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.

MFL: Million fibers per liter.

micromhos per centimeter (µmhos/cm): A measure of electrical conductance.

NA: Not applicable

N/A: No data available

ND: Not detected

Nephelometric Turbidity Units (NTU): Measurement of the clarity, or turbidity, of the water.

Notification Level (NL): The concentration of a contaminant, which, if exceeded, requires notification to

pH: A measurement of acidity, 7.0 being neutral.

picocuries per liter (pCi/L): Measurement of the natural rate of disintegration of radioactive contaminants in water (also beta particles).

parts per billion (ppb): One part substance per billion parts

parts per million (ppm): One part substance per million parts water, or milligrams per liter.

parts per trillion (ppt): One part substance per trillion parts water, or nanograms per liter.

Primary Drinking Water Standard (PDWS): MCLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California EPA.

RAA: Running Annual Average

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

SWRCB: State Water Resources Control Board

TON: Threshold Odor Number

Total Dissolved Solids (TDS): An overall indicator of the amount of minerals in water.

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

Variances and Exemptions: State or USEPA permission not to meet an MCL or utilize a treatment technique under certain conditions.

%: Percent



If you have any questions about this report, your drinking water, or service, please call California American Water's Customer Service toll free at (888) 237-1333.

WATER INFORMATION SOURCES

California American Water

www.californiaamwater.com

State Water Resources Control Board

www.swrcb.ca.gov

United States Environmental Protection Agency (USEPA)

www.epa.gov/safewater

Safe Drinking Water Hotline

(800) 426-4791

Centers for Disease Control and Prevention

www.cdc.gov

American Water Works Association

www.awwa.org

Water Quality Association

www.wqa.org

National Library of Medicine/National Institute of

Health

www.nlm.nih.gov/medlineplus/drinkingwater.html

This report contains important information about your drinking water. Translate it, or speak with someone who understands it at (888) 237-1333.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien al (888) 237-1333.

Ntawm no yog ib co lus qhia tseem ceeb heev txog koj cov dej seb huv npaum li cas. Yog tias koj xav tau kev pab txhais cov lus qhia no, thov hu rau peb ntawm (888) 237-1333.

這是關於您的水質的十分重要的資訊。如果您需要幫助翻譯此資訊 請致電(888) 237-1333 與我們聯繫。

आपके पानी की गुणवत्ता के बारे में यह बहुत महत्वपूर्ण सूचना है। यदि इस सूचना के अनुवाद के लिए आपको सहायता की जरूरत हो, तो कृपया (888) 237-1333 पर हमें काल करें।

Это очень важная информация о качестве Вашей воды. Если Вам требуется перевод этой информации, позвоните нам по телефону (888) 237-1333.

Ito ay isang napakahalagang impormasyon tungkol sa kalidad ng iyong tubig. Kung iyong kailangan ng tulong sa pagsalin ng impormasyon na ito, mangyaring tumawag sa amin sa (888) 237-1333.

Đây là thông tin rất quan trọng về chất lượng nước của quý vị. Nếu quý vị cần thông dịch thông tin này, xin gọi chúng tôi theo số (888) 237-1333.