



# 2019 ANNUAL WATER QUALITY REPORT

LINCOLN OAKS | PWS ID: 3410013



CALIFORNIA  
AMERICAN WATER

WE KEEP LIFE FLOWING™



RICHARD SVINDLAND  
President

## A Message from California American Water President RICHARD SVINDLAND

Dear California American Water Customer,

Having 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 2019 Consumer Confidence Report, which is a testament to the hard work and dedication of our employees who work to provide high quality drinking water.

During the COVID-19 public health emergency, California American Water activated business continuity plans to strengthen our ability to provide reliable, high quality service to our customers, continue to deliver water and wastewater services and protect our employees and customers.

According to the U.S. Environmental Protection Agency (USEPA) based on current research, the risk to water supplies is low. The USEPA has also relayed that Americans can continue to use and drink water from their tap as usual.

California American Water remains committed to the delivery of safe, reliable water. That includes operation of drinking water treatment barriers, which provide an added layer of protection that includes filtration and disinfection of our surface water supplies (e.g., those from lakes, reservoirs or rivers) and disinfection of our groundwater sources (e.g., underground wells).

We have rigorous safeguards in place to help provide water to you that meets or surpasses increasingly stringent water quality standards. Across California, we conducted approximately 650 different tests on over 25,000 water samples for nearly 3,000 constituents last year. We are proud and pleased to confirm that those tests showed 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 helps maintain 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 for such an essential service.

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](http://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 2019.

Sincerely,

A handwritten signature in blue ink, appearing to read "Richard Svindland".

RICHARD SVINDLAND  
President

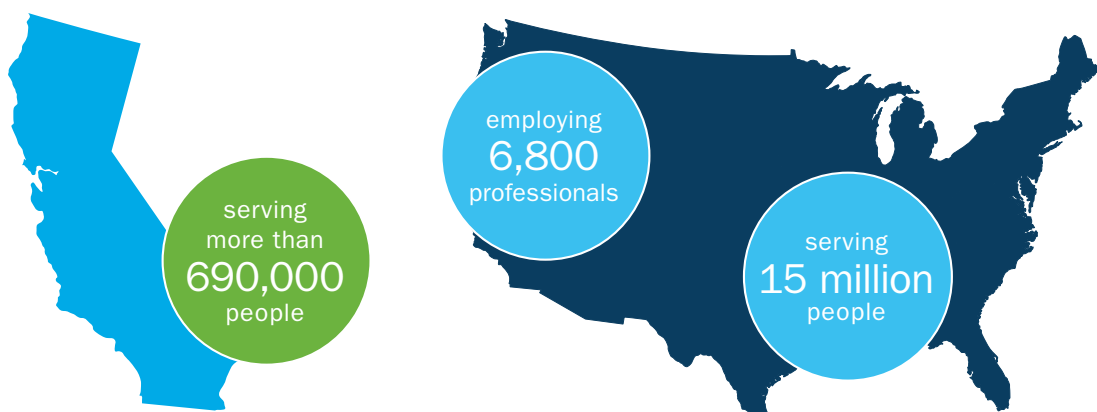


# OUR COMMITMENT TO QUALITY


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 2019. As in the past, we are committed to delivering high 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 Works Company, Inc. (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 6,800 dedicated professionals who provide regulated and market-based drinking water, wastewater and other related services to 15 million people in 46 states. American Water provides safe, clean, affordable and reliable water services to our customers to help keep their lives flowing. For more information, visit [amwater.com](http://amwater.com) and follow American Water on Twitter, Facebook and LinkedIn.





A smiling man with a beard, wearing a light gray long-sleeved shirt, is sitting on a light-colored couch. He is looking at a laptop screen. The background is a bright, modern living room with a white chair and a plant on a table.

# WHAT IS A CONSUMER CONFIDENCE REPORT (CCR)?

The CCR is an annual water quality report containing data that California American Water and all associated water suppliers collected during 2019. CCRs let consumers know what contaminants, if any, are in their drinking water as well as 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 2019, we collected numerous samples at various sampling points in your water system. The water quality data presented is a combination of data compiled from American Water's 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.



# ABOUT YOUR WATER

The Lincoln Oaks water system is served by deep wells that pump groundwater from aquifers here in the Sacramento Valley. These wells are all located within the geographic boundaries of our Lincoln Oaks service area. California American Water uses drinking water treatment technologies including granular activated carbon (GAC) at some sources to remove low levels of organic chemical contaminants, in addition to chlorinating the water for bacteriological quality.

During 2019, California American Water also supplemented the Lincoln Oaks system with surface water purchased from the Sacramento Suburban Water District (SSWD). Surface water treatment technologies include coagulation, sedimentation, filtration and disinfection.

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 Lincoln Oaks system was completed in February 2003. The sources are considered most vulnerable to the following (associated with detected chemicals): dry cleaners, sewer collection systems, known plumes, fertilizer, and pesticide/herbicide application.

Although not associated with any detected chemicals, water sources are also considered vulnerable to the following: automobile gas stations and body shops, underground storage tanks (confirmed leaking tanks), photo processing/printing, and historic gas stations.

A copy of the completed assessment may be viewed at: California American Water, 4701 Beloit Drive, Sacramento, CA 95838.

An assessment of the surface water source from SSWD was conducted in 2001 by the San Juan Water District. The source is considered most vulnerable to potential contamination from the Folsom Lake State Recreation Area facilities, high-density housing, and associated activities such as sewer and septic systems and fertilizer, pesticide and herbicide application, as well as illegal activities and dumping.



# WHAT ARE THE SOURCES OF CONTAMINANTS?

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 & UCMR

## 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 Lincoln Oaks 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.

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## UNREGULATED CONTAMINANT MONITORING RULE (UCMR)

The USEPA created the Unregulated Contaminants Monitoring Rule (UCMR) to assist them in determining the occurrence of unregulated contaminants in drinking water and whether new regulations are warranted. The first Unregulated Contaminants Monitoring Rule (UCMR1) testing was completed in 2003 for a list of contaminants specified by the USEPA. Unregulated contaminants are those for which the USEPA has not established drinking water standards. UCMR2 testing was conducted between November 2008 and August 2009, and UCMR3 assessment monitoring was conducted between January 2013 and December 2016. The fourth cycle (UCMR4) began in January 2018 and is in various stages of implementation through December 2020. The results from the UCMR monitoring are reported directly to the USEPA. The results of this monitoring are incorporated in the data tables in this report as appropriate. For more information, contact our Customer Service Center at (888) 237-1333.



# LEAD

## 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.

There are steps that you can take to reduce your household's exposure to lead in drinking water. 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. For more information, please review our Lead and Drinking Water Fact Sheet at [www.amwater.com/caaw/water-quality/lead-and-drinking-water](http://www.amwater.com/caaw/water-quality/lead-and-drinking-water).

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](http://www.epa.gov/lead).





# CRYPTOSPORIDIUM & NITRATES

## CRYPTOSPORIDIUM

Cryptosporidium is a microbial pathogen found in surface waters throughout the U.S. Although filtration removes Cryptosporidium, the most commonly used filtration methods cannot guarantee 100% removal. Monitoring indicates the presence of these organisms in source water and/or finished water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome

the disease within a few weeks. However, immuno-compromised people are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their health care provider regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water. You can obtain more information on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants by calling the USEPA's Safe Drinking Water Hotline (800) 426-4791.

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## NITRATES

Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

A young child with curly hair is sitting in a high chair, drinking from a clear glass. The child is wearing a white shirt. In front of them is a plate of food, including green beans and meat. The background is a window with a patterned curtain.

# PFOA/PFOS MONITORING

## PFOA/PFOS Monitoring

Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) are fluorinated organic chemicals that are part of a larger group of chemicals referred to as per- and poly-fluoroalkyl substances (PFASs). PFOS and PFOA have been extensively produced and studied in the United States. They have been used in consumer products such as carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) designed to be waterproof, stain-resistant or non-stick. In addition, they have been used in fire-retarding foam and various industrial processes.

Exposure to PFOA and PFOS over certain levels may result in adverse health effects, including developmental effects to fetuses during pregnancy or to breastfed infants (e.g., low birth weight, accelerated puberty, skeletal variations), cancer (e.g., testicular, kidney), liver effects (e.g., tissue damage), immune effects (e.g., antibody production and immunity), thyroid effects and other effects (e.g., cholesterol changes). While people are exposed to PFOS and PFOA largely through food, food packaging, consumer products, and house dust, the exposure through drinking water has become an increasing concern due to the tendency of PFASs to accumulate in groundwater. In 2019, Division of Drinking Water (DDW) established Notification Levels (NLs) at 6.5 ppt for PFOS and 5.1 ppt for PFOA in drinking water.

California American Water conducted voluntary PFOA/PFOS monitoring in the source and treatment facility effluent water in Lincoln Oaks water system in 2019. Out of 19 sources used to supply water in 2019, four wells had detections of PFOA ranging from 1.6–2.6 ppt and three wells had detections of PFOA ranging from 1.6–4.3 ppt.

A close-up photograph of a young woman with long dark hair, smiling and looking off-camera. She is holding a teal water bottle. The background is a blurred outdoor setting with trees and a bright sky.

## EDUCATIONAL & SPECIAL HEALTH INFORMATION

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/Centers for Disease Control and Prevention (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.





# MEASUREMENTS

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:

1 second  
in 12 days

## PARTS PER BILLION:

1 second  
in 32 years

## PARTS PER TRILLION:

1 second  
in 32,000 years

1 second

12  
days

1 second

32  
years

1 second

32,000  
years



# HOW TO READ THIS TABLE

California American Water conducts extensive monitoring to determine if your water meets all water quality standards. The results of our monitoring are reported in the following tables. While most monitoring was conducted in 2019, 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 2019 or year prior.
- 3 **MCL/MRDL/Action Level** shows the highest level of substance (contaminant) allowed.
- 4 **MCLG/PHG/MRDLG** 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 **Typical Source** tells where the substance usually originates.

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

## 2019 Annual Water Quality Results | Lincoln Oaks

### Regulated Substances

Substance (Units)	Year Sampled*	MCL	PHG (MCLG)	LINCOLN OAKS			SSWD			Violation	Major Sources In Drinking Water
				Average Amount Detected	Range		Average Amount Detected	Range			
					Low	High		Low	High		
Aluminum (ppm)	2018-2019	1	0.6	0.03	ND	0.17	N/A	N/A		No	Erosion of natural deposits; residue from some surface water treatment processes
Barium (ppm)	2016, 2018 - 2019	1	2	ND	ND	0.14	ND	NA		No	Discharges of oil drilling wastes and from metal refineries; Erosion of natural deposits
Chromium, Tota (ppb)	2018	50	(100)	ND	ND	18	N/A	N/A		No	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride (ppm) (naturally occurring)	2016, 2018 - 2019	2	1	ND	ND	0.11	ND	ND		No	Erosion of natural deposits; Discharge from fertilize and aluminum factories
Nitrate (as nitrogen) (ppm)	2019	10	10	2.6	0.22	6.5	ND	ND		No	Runoff and leaching from fertilizer use; Leaching from septic tanks and sewage; Erosion of natural deposits
Tetrachloroethylene (PCE) (ppb)	2019	5	0.06	0.5	ND	2.6	N/A	N/A		No	Discharge from factories, dry cleaners, and auto factories
Control of Disinfection By-Product Precursors (TOC) (ppm)	2019	TT=2 <sup>1</sup>	N/A	NA <sup>2</sup>	NA		1.1	0.8	1.7	No	Various natural and man-made sources

<sup>1</sup> Treatment requirement if average TOC>2. Removal ratio greater than or equal to 1.0 indicates that TOC removal requirements were met or exceeded.

<sup>2</sup> Only surface water sources must comply with PDWS for Control of Disinfection By-Product Precursors and turbidity.

### Distribution System Monitoring (withing Lincoln Oaks system service area)

Substance (Units)	Year Sampled	MCL/MRDL	MRDLG (MCLG)	LINCOLN OAKS			SSWD			Violation	Major Sources In Drinking Water
				Average Amount Detected	Range		Average Amount Detected	Range			
					Low	High		Low	High		
Chlorine (ppm)	2019	MRDL=4.0	4.0	0.7	0.2	1.3	0.68	0.35	0.9	No	Treatment chemical used to disinfect drinking water
Haloacetic Acids [HHA5] (ppb) <sup>3</sup>	2019	60	N/A	22	ND	30	27	20	36	No	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb) <sup>3</sup>	2019	80	N/A	24	ND	39	47	37	60	No	By-product of drinking water disinfection

<sup>3</sup> TTHM/HAA5 - Although there is no collective MCLG for this contaminant group, there are individual MCLGs for some of the individual contaminants. Trihalomethanes: Bromodichloromethane (zero); bromoform (zero); chloroform (0.07mg/L); dibromochloromethane (0.06 mg/L). Haloacetic Acids: Dichloroacetic Acid (zero); Trichloroacetic Acid (0.02mg/L). Monochloroacetic Acid (0.07mg/L), Bromoacetic Acid and Dibromoacetic Acid are regulated with this group but have no MCLGs. The "Average Amount Detected" is the Highest Running Annual Average.

### Secondary Substances

Substance (Units)	Year Sampled	SMCL <sup>4</sup> (NL)	LINCOLN OAKS			SSWD			Violation	Major Sources In Drinking Water
			Average Amount Detected	Range		Average Amount Detected	Range			
				Low	High		Low	High		
Aluminum (ppm)	2018-2019	0.2	0.03	ND	0.17	ND	NA		No	Erosion of natural deposits; residue from some surface water treatment processes
Chloride (ppm)	2018-2019	500	38	15	63	1.8	NA		No	Runoff/leaching from natural deposits; Seawater influence
Iron (ppb)	2018	300	ND	ND	1100	ND	NA		No	Leaching from natural deposits; Industrial wastes
Manganese (ppb)	2018	50	7.3	ND	44	ND	NA		No	Leaching from natural deposits; Industrial wastes
Specific Conductance (umhos/cm)	2018-2019	1,600	392	310	610	65	50	98	No	Substances that form ions when in water; Seawater influence
Sulfate (ppm)	2018-2019	500	12	4.0	28	3.8	NA		No	Runoff/leaching from natural deposits; Industrial wastes
Total Dissolved Solids (ppm)	2018-2019	1,000	268	180	390	30	NA		No	Runoff/leaching from natural deposits
Turbidity (NTU)	2018-2019	5	0.28	ND	1.7	0.02	0.02	0.04	No	Soil runoff
Vanadium (ppb) <sup>5</sup>	2018	( 50 )	13	ND	19	N/A	N/A		No	Naturally-occurring metal
Boron (ppm) <sup>6</sup>	2018	( 1 )	0.2	ND	0.6	N/A	N/A		No	

<sup>4</sup> 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.

<sup>5</sup> 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.

<sup>6</sup> 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.

### Turbidity - A Measure of the Clarity of the Water (SSWD)

Substance (Units)	Year Sampled	MCL	PHG (MCLG)	Highest Single Measurement	Violation	Typical Source
Turbidity (NTU)	2019	TT = 1.0 NTU	NA	0.041	No	Soil runoff
		TT = percentage of samples <0.3 NTU		100.0%		

### 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)	2019	1.3	0.3	32	0.40	0	No	Internal corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	2019	15	0.2	32	2	0	No	Internal corrosion of household plumbing systems; Erosion of natural deposits; Discharges from industrial manufacturers



# Unregulated Substances (Measured on the Water Leaving the Treatment Facility or within the Distribution System)

Unregulated Substances (measured on the water leaving the treatment facility or disinfection system)									
Substance (units)	Year Sampled	PHG (NL)	LINCOLN OAKS			SSWD			Notes
			Average Amount Detected	Range		Average Amount Detected	Range		
Low	High	Low		High					
1,4-Dioxane (ppb)	2015	( 1 )	ND	ND	0.1	ND	NA		Typically found at some solvent release sites and PET manufacturing facilities
Chlorodifluoromethane (HCFC-22) (ppb)	2015	N/A	0.4	ND	5.5	ND	NA		Refrigerant and propellant
Chlorate (ppb)	2015	N/A	157	ND	820	ND	NA		Oxidant used in pyrotechnics and possible by-product of water treatment
Hexavalent Chromium (ppb)	2015	N/A	3.3	0.6	7.1	0.08	0.07	0.09	Runoff/leaching from natural deposits or discharge from Industrial Facilities
Chromium Total (ppb)	2015	N/A	3.3	0.5	6.6	ND	NA		Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Strontium (ppb)	2015-2016	N/A	309	217	735	59.8	52	64	Naturally-occurring metal
Vanadium (ppb)	2015	( 50 )	13	ND	21	0.67	0.47	1.0	Naturally-occurring metal
Manganese (ppb)	2019	( 500 )	ND	ND	0.86	1.05	ND	3.2	Leaching from natural deposits
Germanium (ppb)	2019	N/A	24	ND	290	ND	NA		Leaching from natural deposits
HAA5 (ppb)	2019	MCL=60	16.4	ND	29.6	21.1	19.0	31.6	By-product of drinking water disinfection
HAA6Br (ppb) <sup>7</sup>	2019	N/A	0.51	ND	1.1	ND	NA		By-product of drinking water disinfection
HAA9 (ppb) <sup>8</sup>	2019	N/A	13	ND	21	24.7	15.6	32.6	By-product of drinking water disinfection
Perfluorooctanoic Acid [PFOA] (ppt) <sup>9</sup>	2019	(5.1)	0.43	ND	2.6	ND	NA		See page 10 for more PFOA/PFOS information
Perfluorooctanesulfonic Acid [PFOS] (ppt) <sup>9</sup>	2019	(6.5)	0.43	ND	4.3	ND	NA		See page 10 for more PFOA/PFOS information

<sup>7</sup> HAA6Br: Bromochloroacetic acid, bromodichloroacetic acid, dibromoacetic acid, dibromochloroacetic acid, monobromoacetic acid, and tribromoacetic acid.

<sup>8</sup> HAA9: Bromochloroacetic acid, bromodichloroacetic acid, chlorodibromoacetic acid, dibromoacetic acid, dichloroacetic acid, monobromoacetic acid, monochloroacetic acid, tribromoacetic acid, and trichloroacetic acid

<sup>9</sup> California American Water conducted voluntary PFOA/PFOS monitoring in the source and treatment facility effluent water in Lincoln Oaks water system in 2019. Out of 19 sources used to supply water in 2019, 4 wells had detections of PFOA ranging 1.6-2.6 ppt and 3 wells had detections of PFOS ranging 1.6-4.3 ppt.

See page 10 for more PFOA/PFOS information.

## 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 in 2019 and in the distribution system. Values may vary from day-to-day. There are no health-based limits for these substance in drinking water.

Substance (units)	Year Sampled	LINCOLN OAKS			SSWD		
		Average Amount Detected	Range		Average Amount Detected	Range	
			Low	High		Low	High
Total Alkalinity (ppm)	2018-2019	118	97	210	N/A	N/A	
Bicarbonate as CaCO3 (ppm)	2018-2019	118	97	210	13	NA	
Calcium (ppm)	2018-2019	26	17	54	3.3	NA	
Magnesium (ppm)	2018	14	9.3	26	1.00	NA	
pH	2018-2019	7.1	6.4	8	N/A	N/A	
Silica (ppm)	2018	77	67	85	N/A	N/A	
Sodium (ppm)	2018	30	15	50	1.6	NA	
Total Hardness as CaCO3 (ppm)	2018-2019	121	81	240	12	NA	
Total Hardness as CaCO3 (grains/gallon)	2018-2019	7.1	4.7	14	0.7	NA	

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

"Sodium" refers to the salt present in the water and is generally naturally occurring.

\* 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.

Additional Monitoring - In addition to the parameters in this table, other parameters were monitored for, including regulated pesticides, herbicides, petroleum by-products and metals. None of those parameters were detected in the water. If you have any questions about this report or your drinking water, please call Customer Service at 1-888-237-1333.



# DEFINITION OF TERMS

**Action Level (AL):** The concentration of a contaminant, which, 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 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 ( $\mu\text{mhos/cm}$ ):** 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 DDW and the consumer. Not an enforceable standard.

**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 water, or micrograms per liter.

**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



# HOW TO CONTACT US

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](http://www.californiaamwater.com)

### State Water Resources Control Board (State Board), Division of Drinking Water (DDW)

[www.waterboards.ca.gov/drinking\\_water/programs/index.shtml](http://www.waterboards.ca.gov/drinking_water/programs/index.shtml)

### United States Environmental Protection Agency (USEPA)

[www.epa.gov/safewater](http://www.epa.gov/safewater)

### Safe Drinking Water Hotline

(800) 426-4791

### Centers for Disease Control and Prevention

[www.cdc.gov](http://www.cdc.gov)

### American Water Works Association

[www.awwa.org](http://www.awwa.org)

### Water Quality Association

[www.wqa.org](http://www.wqa.org)

### National Library of Medicine/National Institute of Health

[www.nlm.nih.gov/medlineplus/drinkingwater.html](http://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.