



# Annual Consumer Confidence Report Spring 2024



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Rubidoux Community Services District



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[rubidoux\\_csd](https://www.instagram.com/rubidoux_csd)

# MESSAGE FROM GENERAL MANAGER

Dear Valued Resident,

I am pleased to present to you our annual Consumer Confidence Report (CCR), which provides detailed information about the quality of your drinking water. Ensuring that you have access to safe, reliable, and high-quality water is our top priority, and this report reflects our ongoing commitment to maintaining the highest standards in water quality and customer service.

The CCR is a comprehensive overview of the quality of water provided by our District, as mandated by the Environmental Protection Agency (EPA). This report contains valuable information regarding the source of your water, any contaminants detected, and how these levels compare to EPA standards.

Over the past year, our dedicated team of water quality experts and operators has worked tirelessly to monitor and improve our water systems. We are proud to report that our water meets or exceeds all federal and state water quality standards. This achievement is a testament to our rigorous testing protocols and the investments we have made in advanced water treatment technologies.

Our water undergoes extensive testing for a variety of potential contaminants, including microorganisms, organic and inorganic chemicals, and disinfectants. This year, we conducted over 20,000 tests to monitor for contaminants and impurities. Additionally, we have made significant upgrades to our water treatment facilities and distribution systems, ensuring that we can deliver clean and safe water to every tap. These improvements help us to maintain the integrity of our water supply and prepare for future demands.

We believe that transparency and community involvement are crucial. Throughout the year, we have held several public meetings and participated in various community events including the City of Jurupa Valley district townhalls to inform our customers about water quality issues and to gather feedback on how we can better serve you. Your trust is important to us, and we are committed to earning it every day by delivering water that is not only safe but also of the highest quality.

I encourage you to review the detailed information in this report to understand more about where your water comes from, the rigorous testing it undergoes, and the measures we take to ensure its safety. Thank you for your continued trust and support. We look forward to serving you and our community in the years to come.

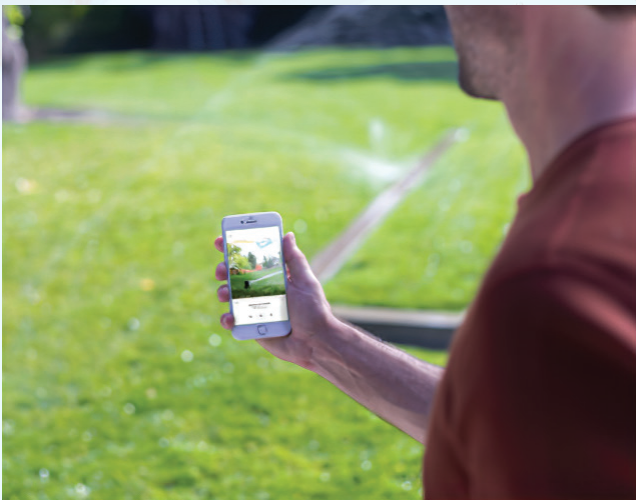
**Brian Laddusaw**  
**General Manager**  
**Rubidoux Community Services District**



# WATER USE EFFICIENCY

Despite a rainy year, California still grapples with extreme weather, from record dry spells to intense storms. Rubidoux Community Services District is dedicated to bolstering our water resiliency. In Southern California, conservation is vital, whether we're facing drought or deluge. Every drop we save today is an investment in our future.

Rubidoux Community Services District is here to help our community take charge of their water use. We've teamed up with the Metropolitan Water District of Southern California to offer various rebate programs for both residential and commercial customers. These include incentives for indoor and outdoor water-saving measures, as well as a Turf Replacement Program. These programs aim to reduce water waste, improve efficiency, and help you save on your water bills.



For more details and to apply for rebates, visit [SoCalWaterSmart.com](https://www.socalwatersmart.com).





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*Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Rubidoux Community Services District a (951) 684-7580 para asistirlo en español.*

The Rubidoux Community Services District is pleased to present to you this year's Annual Consumer Confidence Report. This report is designed to inform you about the quality of water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and to protect our water resources. We are committed to ensuring the quality of your water. This report shows the quality of your water and what it means.

The sources of drinking water (both tap water and bottled 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, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

### Common Contaminants

Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- *Pesticides and herbicides*, 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, that 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 be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and State Water Resources Control Board, (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

### Obtaining Contaminant 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by visiting the USEPA's website at <http://epa.gov/ground-water-and-drinking-water> or by calling the USEPA's Safe Drinking Water Hotline (800-426-4791), the National Radon Helpline (800-557-2366), or the California Dept. of Public Health Indoor Radon Program (800-745-7236).

### Routine Water Testing / Ensuring Tap Water Safety

Rubidoux Community Services District routinely monitor for contaminants in your drinking water according to Federal and State laws. Tables 1 through 7 list all of the drinking water contaminants that were detected during the period of **January 1st to December 31st, 2023**. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. 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 the data, though representative of the water quality, are more than one year old.



## Definitions

In this report are terms and abbreviations you might not be familiar with. To help you better understand these terms, we have provided the following definitions:

**Parts per million (ppm) or milligrams per liter (mg/L)** – a measure of concentration in water. One part per million (or milligram per liter) corresponds to one second in 11.5 days.

**Parts per billion (ppb) or micrograms per liter ( $\mu\text{g/L}$ )** – a measure of concentration in water. One part per billion (or microgram per liter) corresponds to one second in nearly 32 years.

**Parts per trillion (ppt) or nanograms per liter (ng/L)** – a measure of concentration in water. One part per trillion (or nanogram per liter) corresponds to one second in nearly 32,000 years.

**Picocuries per liter (pCi/L)** – a measure of the radioactivity in water.

**Microsiemens per centimeter ( $\mu\text{S/cm}$ )** – a measure of the electrical conductivity of water.

**Nephelometric Turbidity Unit (NTU)** – a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**Regulatory Action Level (AL) or Notification Level (NL)** – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

**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 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.

**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. Note: PHGs do not take into account economic or technological feasibility.

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

**Secondary Drinking Water Standard (SDWS)** – MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect health at the MCL levels.

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

## Effects of Nitrate

No violations of the nitrate MCL (10 mg/L of nitrate as nitrogen) occurred at any time during 2023. As shown in Table 2, nitrate is present in detectable quantities in the water at an average concentration of 6.4 mg/L. 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 seek advice from your health care provider. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity.

## Effects of Turbidity

Turbidity is a measure of the cloudiness of the water and has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms, which can include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

## Effects of Chlorine

The State Water Resources Control Board, Division of Drinking Water (State Board) sets drinking water standards and has determined that chlorine is a health concern at certain levels of exposure. Chlorine is added to drinking water as a disinfectant to kill bacteria and other disease-causing microorganisms and is also added to provide continuous disinfection throughout the distribution system. Disinfection is required for both surface water systems and groundwater systems. Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes or nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort. The State Board has set a drinking water standard for chlorine to protect against the risk of these adverse effects. Drinking water which meets this State Board standard is associated with little to none of this risk and should be considered safe with respect to chlorine.

## Possible Vulnerability

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, persons with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers.

## Your Drinking Water Sources

The water Rubidoux Community Services District delivers to you comes from groundwater, which we currently pump from six active drinking water wells (Wells 1A, 2, 4, 6, 8, and 18). All of our wells are located within the Rubidoux Community Services District boundaries and draw from the Riverside South Groundwater Basin. Water from Wells 4 and 6 is treated for removal of 1,2,3-trichloropropane (1,2,3-TCP) and perfluorinated and polyfluorinated alkyl substances (PFAS) and is then treated at the District's Anita B. Smith Nitrate Removal Facility to reduce the concentration of nitrate before it enters the distribution system. To reduce the concentrations of manganese and PFAS in the water delivered to customers, water from Wells 1A, 8, and 18 is treated at the District's Leland J. Thompson Water Treatment Plant. The water is then blended with water from Well 2 before it enters the distribution system. Prior to blending, water from Well 2 is treated for removal of 1,2,3-TCP and PFAS.

Drinking Water Source Assessments were completed for Wells 2, 4, 6, and 8 in June 2002. The assessment found that Well 2 is considered vulnerable to known contaminant plumes associated with contaminants detected in the water supply (nitrate) and is also vulnerable to historic gas stations and historic wells/dry wells/sumps not associated with any detected contaminants; Well 4 is considered vulnerable to plastics/synthetics producers not associated with any detected contaminants; Well 6 is considered vulnerable to metal plating/finishing/fabricating and plastics/synthetics producers not associated with any detected contaminants; and Well 8 is considered vulnerable to sewer collection systems associated with nitrate detected in the well. A Drinking Water Source Assessment was completed for Well 18 in March 2012 and found that the well is considered vulnerable to automobile-body/repair shops, fleet/truck/bus terminals, and gas stations not associated with detected contaminants and is also vulnerable to sewer collection systems associated with nitrate detected in the well. A Drinking Water Source Assessment was completed for Well 1A in June 2019 and found that it is considered vulnerable to automobile-body/repair shops and past industrial activities within the watershed, as well as to sewer collection systems and past agricultural activities in the watershed that are associated with nitrate detected in the well. Copies of the Drinking Water Source Assessments are available from Rubidoux Community Services District.

## Who to Contact with Questions or Concerns

If you have any questions about this report or concerning your water utility, please contact please contact the District office at (951) 684-7580. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the first and third Thursdays of each month at 4:00 p.m. at 3590 Rubidoux Boulevard, Jurupa Valley, CA 92509.

## Water Quality Monitoring Tables for January 1 - December 31, 2023

TABLE 1 – SAMPLING RESULTS SHOWING DETECTION OF COLIFORM BACTERIA					
Microbiological Contaminant	Highest Percentage of Detections (in a month)	No. of Months in Violation	MCL	PHG (MCLG or MRDLG)	Typical Source of Bacteria
Total Coliform Bacteria	1.9%	0	TT	N/A	Naturally present in the environment

TABLE 2 – DETECTION OF INORGANIC CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD						
Chemical or Constituent	Units	Average Level Detected	Range of Detection	MCL or (MRDL)	PHG or (MCLG or MRDLG)	Typical Source of Contaminant
Arsenic	ppb	0.39	<2.0 – 3.1	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium	ppm	0.07	0.06 – 0.10	1	2	Discharges from oil drilling wastes and from metal refineries; erosion of natural deposits
Chlorine	ppm	0.96 <sup>(a)</sup>	0.4 – 3.6	(4.0)	(4.0)	Drinking water disinfectant added for treatment
Total Chromium	ppb	4.9	3.2 – 9.3	50	(100)	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride <sup>(b)</sup>	ppm	0.30	0.1 – 0.5	2.0	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate as Nitrogen	ppm	6.4	3.0 – 9.3	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Perchlorate	ppb	<2.0	<2.0 – 3.2	6	1	Discharge from aerospace and other industrial facilities

TABLE 3 – DETECTION OF ORGANIC CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD						
Chemical or Constituent	Units	Average Level Detected	Range of Detection	MCL or MRDL	PHG (MCLG or MRDLG)	Typical Source of Contaminant
TTHMs [Total Trihalomethanes]	ppb	13.4 <sup>(c)</sup>	4.9 – 19	80	None established	Byproduct of drinking water disinfection
HAA [Haloacetic Acids]	ppb	1.7 <sup>(c)</sup>	<2.0 – 2.3	60	None established	Byproduct of drinking water disinfection



TABLE 4 – SAMPLING RESULTS FOR RADIOACTIVITY						
Chemical or Constituent	Units	Average Level Detected	Range of Detection	MCL	PHG (MCLG)	Typical Source of Contaminant
Alpha Activity, Gross	pCi/L	4.23	2.36 – 5.54	15	0	Erosion of natural deposits
Radium <sup>(d)</sup>	pCi/L	0.29	<0.10 – 0.68	5	(0)	Erosion of natural deposits
Uranium	pCi/L	4.13	3.05 – 5.91	20	0.43	Erosion of natural deposits

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD						
Chemical or Constituent	Units	Average Level Detected	Range of Detection	MCL	PHG <sup>(e)</sup> (MCLG)	Typical Source of Contaminant
Chloride	ppm	82	48 – 89	500	None established	Runoff/leaching from natural deposits; seawater influence
Color (color units, CU)	CU	<3.0	<3.0 – 5.0	15	None established	Naturally-occurring organic materials
Manganese	ppb	<20	<20 – 87 <sup>(f)</sup>	50	None established	Leaching from natural deposits
pH	pH Units	7.6	7.3 – 8.2	None established		Erosion of natural deposits
Specific Conductance	µS/cm	817	780 – 8400	1600	None established	Substances that form ions when in water; seawater influence
Sulfate	ppm	82	77 – 96	500	None established	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids	ppm	512	480 – 600	1000	None established	Runoff/leaching from natural deposits
Turbidity	NTU	0.25	<0.1 – 13 <sup>(g)</sup>	5	None established	Soil runoff

TABLE 6 – SAMPLING RESULTS <sup>(h)</sup> FOR LEAD <sup>(i)</sup> AND COPPER						
Chemical or Constituent and Reporting Units	No. of Samples Collected	90 <sup>th</sup> Percentile Level Detected	Action Level (AL)	No. of Sites Exceeding AL	PHG (MCLG)	Typical Source of Contaminant
Copper (ppm)	31	0.52	1.3	0	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (ppb) <sup>(i)</sup>	31	<5	15	0	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

TABLE 7 – SAMPLING RESULTS FOR UNREGULATED CONTAMINANTS						
Chemical or Constituent	Units	Average Level Detected	Range of Detection	NL or RL	PHG (MCLG)	Typical Source of Contaminant
Sodium	ppm	65	44 – 78	None established		Erosion of natural deposits
Hardness	ppm	273 <sup>(j)</sup>	220 – 350	None established		Erosion of natural deposits
PFBS <sup>(k)</sup>	ppt	2.13	<1.7 – 11	NL=500 / RL=5000	None established	Firefighting foams, nonstick coatings, industrial facilities
PFHxA <sup>(k)</sup>	ppt	7.29	<1.7 – 20	None established		Firefighting foams, nonstick coatings, industrial facilities
PFBA <sup>(k)</sup>	ppt	14.46	<1.7 – 21	None established		Firefighting foams, nonstick coatings, industrial facilities
PFPeA <sup>(k)</sup>	ppt	17.53	<1.7 – 32	None established		Firefighting foams, nonstick coatings, industrial facilities

**Table Footnotes:**

- (a) Highest running annual average during 2023.
- (b) Fluoride is naturally present in the District’s groundwater supply. The District does not add fluoride to your drinking water.
- (c) Highest Locational Running Annual Average (LRAA) during 2023.
- (d) Radium results listed herein consist of the sum of laboratory results for Radium-226 and Radium-228.
- (e) There are no PHGs, MCLGs, or mandatory standard health effects language for these constituents because Secondary MCLs are set to protect the aesthetics of water.
- (f) Out of fourteen samples taken for manganese in 2023, one sample exceeded the secondary MCL of 50 ppb.
- (g) Out of 153 samples taken for turbidity in 2023, two samples exceeded the secondary MCL of 5 NTU.
- (h) Samples for lead and copper are taken every three years, and the most recent samples were taken in 2023. No schools requested lead sampling from us during 2023.
- (i) 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. Rubidoux Community Services District 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 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. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (800-426-4791) or at <http://www.epa.gov/lead>.
- (j) Equivalent to approximately 16 grains per gallon
- (k) PFBS is perfluorobutanesulfonic acid. PFHxA is perfluorohexanoic acid. PFBA is perfluorobutanoic acid. PFPeA is perfluoropentanoic acid.





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