Your 2022 Water Quality Report

The Knowledge You Need for Continued Consumer Confidence



Look inside to see how our water quality is equal to or better than what is required to safeguard public health.



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You Can Have Confidence in the Quality of Your Water

The Laguna Beach County Water District is pleased to distribute this report to its water customers. It provides important information about where your water comes from and the work we perform each day to assure the water delivered to your tap meets all Federal and State drinking water standards.

The tap water that comes out of your faucet has to meet rigorous Federal and State regulatory standards; otherwise, we wouldn't be able to deliver it to your home.

Our annual water quality report shares details about the water you receive. You can see for yourself that we are meeting and even exceeding standards required to maintain water quality.

Take a look inside for details on water sources, the constituents found in the water, and how

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our water compares with Federal and State standards.

The Laguna Beach County Water District is committed to safeguarding its water supply and ensuring that your tap water is safe to drink. We also strive to keep you informed about the quality of your water supply.

We Invite You to Learn More About Your Water's Quality

For information about this report, or your water quality in general, please contact Van Xayarath at (949) 464-3117, or visit the LBCWD's website at www.lbcwd.org. For more information about the health effects of the listed contaminants in the

following tables, call the USEPA hotline at (800) 426-4791.

Please check our website at www.lbcwd.org for the dates and times of the monthly Water District Commission Meetings at 306 Third Street in the City of Laguna Beach. You are encouraged to participate in these meetings.

LAGUNA BEACH COUNTY WATER DISTRICT

YOUR 2022 WATER QUALITY REPORT

IMPORTANT INFORMATION ABOUT YOUR WATER

Your 2022 Water Quality Report

ince 1990, California public water utilities have been Oproviding an annual Water Quality Report to their customers. This year's report covers calendar year 2021 drinking water quality testing and reporting. Laguna Beach County Water District (LBCWD) vigilantly safeguards its water supply and, as in years past, the water delivered meets the quality standards required by federal and state regulatory agencies. The U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board, Division of Drinking Water (DDW) are the agencies responsible for establishing and enforcing drinking water quality standards.



In some cases, LBCWD goes beyond what is required by testing for unregulated chemicals that may have known health risks but do not have drinking water standards. Unregulated chemical monitoring helps USEPA and DDW determine where certain chemicals occur and whether new standards need to be established for those chemicals to

protect public health.

Through drinking water quality testing programs, your drinking water is constantly monitored from source to tap for constituents that are both regulated and unregulated.

The State allows water agencies to monitor for some constituents less than once per year because the concentrations of these constituents do not change frequently. Some of the data, though representative, are more than one year old.

This report contains important information about your drinking water. Translate it, or speak with someone

who understands it. Este informe contiene información Bản báo cáo có ghi những ch

muy importante sobre su agua tiết quan trọng về phẩm chất potable. Para mas información ó nước trong cộng dồng quý vị. raducción, favor de contactar a Hãv nhờ người thông dịch, hoặc hỏi một người bạn biết rõ về vấn Customer Service Representative. elefono: (949) 464-3117.

يحتوي هذا التقرير على معلومات 这份报告中有些重要的信息. هـامـة عـن نـوعيـة مـاء الشرب في 讲到关于您所在社区的水的品 منطقتك. يرجى ترجمته، أو ابحث 质。请您找人翻译一下,或者 التقرير مع صديق لك يفهم هذه 请能看得懂这份报告的朋友给 المعلومات جيداً. 你解释一下

이 보고서에는 귀하가 거주하는 この資料には、あなたの飲料水 지역의 수질에 관한 중요한 정보 についての大切な情報が書かれ 가 들어 있습니다. 이것을 변역 ています。内容をよく理解する 하거나 충분히 이해하시는 친구 ために、日本語に翻訳して読む 와 상의하십시오 か説明を受けてください。

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Disinfection Byproducts	MCL (MRDL/MRDLG)	Average Amount	Range of Detections	MCL Violation?	Typical Source of Contaminant
Total Trihalomethanes (ppb)	80	35	8.4 - 48	No	Byproducts of Chlorine Disinfection
Haloacetic Acids (ppb)	60	16	4 - 18	No	Byproducts of Chlorine Disinfection
Chlorine Residual (ppm)	(4 / 4)	1.77	0.9 - 1.86	No	Disinfectant Added for Treatment
Aesthetic Quality					
Color (color units)	15*	1	1	No	Erosion of Natural Deposits
Odor (threshold odor number)	3*	1	1	No	Erosion of Natural Deposits
Turbidity (NTU)	5*	0.19	0.12 - 0.48	No	Erosion of Natural Deposits

Four locations in the distribution system are tested quarterly for trihalomethanes and haloacetic acids; twelve locations are tested monthly for color, odor and turbidity MRDL = Maximum Residual Disinfectant Level: MRDLG = Maximum Residual Disinfectant Level Goal *Contaminant is regulated by a secondary standard to maintain aesthetic gualities (taste, odor, color).

Lead and Copper Action Levels at Residential Taps								
	Action Level (AL)	Public Health Goal	90 th Percentile Value	Sites Exceeding AL / Number of Sites	AL Violation?	Typical Source of Contaminant		
Lead (ppb)	15	0.2	ND	0 / 31	No	Corrosion of Household Plumbing		
Copper (ppm)	1.3	0.3	0.19	0 / 31	No	Corrosion of Household Plumbing		

Every three years, at least 30 residences are tested for lead and copper at-the-tap. The most recent set of samples was collected in 2020 Lead was detected in 1 home; it did not exceed the regulatory action level. Copper was detected in 12 homes; none exceeded the regulatory action leve A regulatory action level is the concentration of a contaminant which, if exceeded, triggers treatment or other reguirements that a water system must follow. In 2021, no school submitted a request to be sampled for lead.

Unregulated Chemicals Requiring Monitoring in the Distribution System							
Chemical	Notification Level	PHG	Average Amount	Range of Detections	Most Recent Sampling Date		
Haloacetic acids (HAA5) (ppb)	n/a	n/a	7.8	5.5 – 11.5	2019		
Haloacetic acids (HAA6Br) (ppb)	n/a	n/a	10.2	7.87 – 13.6	2019		
Haloacetic acids (HAA9) (ppb)	n/a	n/a	15.7	11.9 – 21.7	2019		

Source Water Assessments Imported (MWDSC) Water Assessment

Every five years, MWDSC is required by DDW to examine possible sources of drinking water contamination in its State Water Project and Colorado River source waters.

The most recent surveys for MWDSC's source waters are the Colorado River Watershed Sanitary Survey - 2020 Update, and the State Water Project Watershed Sanitary Survey - 2016 Update.

Water from the Colorado River is considered to be most vulnerable to contamination from recreation, urban/stormwater runoff, increasing urbanization in the watershed, and wastewater. Water supplies from Northern California's State Water

We Appreciate All You Do to Save Water

▲hank you! For all we've been through these many years of intermittent drought, the Laguna Beach County Water District extends its heartfelt thanks to all of you who have worked so hard to conserve water. When the

seemingly impossible was asked of

you — that you conserve 20% of our water at the height of the last drought — you not only met this goal, you exceeded it. And best of all, you continued to conserve water after the drought was officially declared to be over.

Now, as we face another year of drought, the District is in a better position than it has been in previous droughts. All because you, our citizens, take your responsibilities seriously. You know we live in an arid land, and you recognize water conservation has to be more than a passing passion — it must be a way of life.

As with all of you, it is our fondest hope we will get through another year of drought. But beyond our hopes, we have confidence the citizens of Laguna Beach will always know what to do to conserve their water.



Nater District Distribution System Water Quality

Project are most vulnerable to contamination from urban/ stormwater runoff, wildlife, agriculture, recreation, and

wastewater.

USEPA also requires MWDSC to complete one Source Water Assessment (SWA) that utilizes information collected in the watershed sanitary surveys. MWDSC completed its SWA in December 2002. The SWA is used to evaluate the vulnerability of water sources to contamination and helps determine whether more protective measures are needed.

A copy of the most recent summary of either Watershed Sanitary Survey or the SWA can be obtained by calling MWDSC at (800) CALL-MWD (225-5693).

2021 Metropolitan Water District of Southern California Treated Surface Water

Chemical	MCL	PHG (MCLG)	Average Amount	Range of Detections	MCL Violation?	Typical Source of Chemical
Radiologicals – Tested in 2020	and 2021					
Gross Alpha Particle Activity (pCi/L)	15	(0)	ND	ND - 3	No	Erosion of Natural Deposits
Gross Beta Particle Activity (pCi/L)	50	(0)	5	4 - 6	No	Decay of Natural and Man-made Deposits
Uranium (pCi/L)	20	0.43	2	1 – 3	No	Erosion of Natural Deposits
Inorganic Chemicals – Tested i	n 2021					
Aluminum (ppm)	1	0.6	0.141	ND - 0.21	No	Treatment Process Residue, Natural Deposits
Barium (ppm)	1	2	0.111	0.111	No	Refinery Discharge, Erosion of Natural Deposit:
Bromate (ppb)	10	0.1	ND	ND - 4.6	No	Byproduct of Drinking Water Ozonation
Fluoride (ppm)	2	1	0.7	0.6 - 0.9	No	Water Additive for Dental Health
Secondary Standards* – Teste	d in 2021					
Aluminum (ppb)	200*	600	141	ND – 210	No	Treatment Process Residue, Natural Deposits
Chloride (ppm)	500*	n/a	96	95 – 97	No	Runoff or Leaching from Natural Deposits
Color (color units)	15*	n/a	1	1	No	Naturally-occurring Organic Materials
Odor (threshold odor number)	3*	n/a	2	2	No	Naturally-occurring Organic Materials
Specific Conductance (µmho/cm)	1,600*	n/a	958	950 — 965	No	Substances that Form lons in Water
Sulfate (ppm)	500*	n/a	214	214 - 215	No	Runoff or Leaching from Natural Deposits
Total Dissolved Solids (ppm)	1,000*	n/a	597	597	No	Runoff or Leaching from Natural Deposits
Unregulated Chemicals – Teste	ed in 2021					
Alkalinity, total as CaCO3 (ppm)	Not Regulated	n/a	125	124 – 126	n/a	Runoff or Leaching from Natural Deposits
Boron (ppm)	NL = 1	n/a	0.13	0.13	n/a	Runoff or Leaching from Natural Deposits
Calcium (ppm)	Not Regulated	n/a	66	65 – 66	n/a	Runoff or Leaching from Natural Deposits
Hardness, total as CaCO3 (ppm)	Not Regulated	n/a	274	271 – 276	n/a	Runoff or Leaching from Natural Deposits
Hardness, total (grains/gallon)	Not Regulated	n/a	16	16	n/a	Runoff or Leaching from Natural Deposits
Magnesium (ppm)	Not Regulated	n/a	25	24 – 26	n/a	Runoff or Leaching from Natural Deposits
pH (pH units)	Not Regulated	n/a	8.1	8.1	n/a	Hydrogen Ion Concentration
Potassium (ppm)	Not Regulated	n/a	4.4	4.2 - 4.6	n/a	Runoff or Leaching from Natural Deposits
Sodium (ppm)	Not Regulated	n/a	94	93 — 95	n/a	Runoff or Leaching from Natural Deposits
Total Organic Carbon (ppm)	TT	n/a	2.4	1.9 – 2.8	n/a	Various Natural and Man-made Sources

ppb = parts per billion; ppm = parts per million; pCi/L = picoCuries per liter; µmho/cm = micromhos per centimeter; ND = not detected;

MCL = Maximum Contaminant Level; (MCLG) = federal MCL Goal; PHG = California Public Health Goal;

NL = Notification Level; n/a = not applicable; TT = treatment technique

*Chemical is regulated by a secondary standard.

Turbidity – combined filter effluent Metropolitan Water District Diemer Filtration Plant	Treatment Technique	Turbidity Measurements	TT Violation?	Typical Source of Chemical	
1) Highest single turbidity measurement (NTU)	0.3	0.03	No	Soil Runoff	
2) Percentage of samples less than or equal to 0.3 NTU	95%	100%	No	Soil Runoff	

Turbidity is a measure of the cloudiness of the water, an indication of particulate matter, some of which might include harmful microorganisms. Low turbidity in Metropolitan's treated water is a good indicator of effective filtration. Filtration is called a "treatment technique" (TT).

A treatment technique is a required process intended to reduce the level of chemicals in drinking water that are difficult and sometimes impossible to measure directly.

Unregulated Chemicals Requiring Monitoring Notification Range of **Most Recent** Average Chemical Level PHG Amount Detections Sampling Date Manganese (ppb) ** SMCL = 50n/a 2.75 1.4 – 4.1 2019

SMCL = Secondary MCL

**Manganese is regulated with a secondary standard of 50 ppb but was not detected, based on the detection limit for purposes of reporting of 20 ppb. Manganese was included as part of the unregulated chemicals requiring monitoring.

----- To Safeguard Against Issues that May Affect Your Health -----We Comply with All State & Federal Water Quality Regulations

Cryptosporidium

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Cryptosporidium is a microscopic organism that, when ingested, can cause diarrhea, fever, and other gastrointestinal symptoms. The organism comes from animal and/or human wastes and may be in surface water. The MWDSC tested their source water and treated surface water for Cryptosporidium in 2021 but did not detect it. If it ever is detected, Cryptosporidium is eliminated by an effective treatment combination including sedimentation, filtration, and disinfection.

The USEPA and the federal Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from USEPA's Safe Drinking Water Hotline at (800) 426-4791, or on the web at www.epa.gov/safewater.



Immunocompromised People

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised people, such as those with cancer who are undergoing chemo-

therapy, persons who have had organ transplants, people with HIV/AIDS or other immune system disorders, some elderly persons, and infants can be particularly at risk to infection. These people should seek advice about drinking water from their health care providers.

Disinfectant and Disinfection Byproducts

Disinfection of drinking water was one of the major public health advances in the 20th century. Disinfection was a major factor in reducing waterborne disease epidemics caused by pathogenic bacteria and viruses, and it remains an essential part of drinking water treatment today.

Chlorine disinfection has almost completely eliminated from our lives the risks of microbial waterborne diseases. Chlorine is added to your drinking water at the source of supply (surface water treatment plant). Enough chlorine is added so that it does not completely dissipate through the

distribution system pipes. This "residual" chlorine helps to prevent the growth of bacteria in the pipes that carry drinking water from the source into your home.

However, chlorine can react with naturallyoccurring materials in the water to form unintended chemical byproducts, called disinfection byproducts (DBPs), which may pose health risks. A major challenge is how to balance the risks from microbial pathogens and DBPs. It is important to provide protection from these microbial pathogens while



simultaneously ensuring decreasing health risks from disinfection byproducts. The Safe Drinking Water Act requires the USEPA to develop rules to achieve these goals.

Trihalomethanes (THMs) and Haloacetic Acids (HAAs) are the most common and most studied DBPs found in drinking water treated with chlorine. In 1979, the USEPA set the maximum amount of total THMs allowed in drinking water at 100 parts

per billion as an annual running average. Effective in January 2002, the Stage 1 Disinfectants/Disinfection Byproducts Rule lowered the total THM maximum annual average level to 80 parts per billion and added HAAs to the list of regulated chemicals in drinking water. Your drinking water



complies with the Stage 1 Disinfectants/Disinfection Byproducts Rule.

Stage 2 of the regulation was finalized by USEPA in 2006, which further controls allowable levels of DBPs in drinking water without compromising disinfection itself.

A required distribution system evaluation was completed in 2008, and a Stage 2 monitoring plan has been approved by DDW. Full Stage 2 compliance began in 2012.



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.

The LBCWD 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

Water Conservation: A Little Effort Can Save a Lot of Water and Money

LBCWD promotes the conservation of water to its residents so the District can preserve this scarce resource and save residents money in the process.

Water is brought to Southern California via large aqueduct systems that feed off of rivers from the Central Valley and the Colorado River. There are large costs involved in maintaining these systems and transporting the water over miles of deserts, valleys, and mountain ranges. The MWDSC

Chart Legend

What are Water Quality Standards?

Drinking water standards established by USEPA and DDW set limits for substances that may affect consumer health or aesthetic qualities of drinking water. The charts in this report show the following types of water quality standards:

- 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.
- 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.
- Secondary MCLs: Set to protect the odor, taste, and appearance of drinking water
- Primary Drinking Water Standard: MCLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.
- Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

How are Contaminants Measured?

Water is sampled and tested throughout the year. Contaminants are measured in:

- parts per million (ppm) or milligrams per liter (mg/L)
- parts per billion (ppb) or micrograms per liter (μ g/L)
- parts per trillion (ppt) or nanograms per liter (ng/L)



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. The LBCWD can provide a list of approved testing facilities, but the cost for testing is your responsibility.

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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: www.epa.gov/safewater/lead.

is the main supplier of this water and controls the vast network of aqueducts, pumping stations, and filtration plants.

Local municipal water suppliers do have the ability to tap into underground aquifers, but this local supply of water is not enough to meet the demands of the residents; the more expensive "aqueduct" water must be used to meet the demand. For these reasons, it is recommended that you conserve water by reducing water waste. This will save you money as well.

What is a Water Quality Goal?

In addition to mandatory water quality standards, USEPA and DDW have set voluntary water quality goals for some contaminants. Water quality goals are often set at such low levels that they are not achievable in practice and are not directly measurable. Nevertheless, these goals provide useful guideposts and direction for water management practices. The charts in this report include three types of water quality goals:

- 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 USEPA.
- 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.

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