# **APPENDIX B: eCCR Certification Form (Suggested Format)**

# Consumer Confidence Report Certification Form

(To be submitted with a copy of the CCR)

Water	System Na	me:	Irvine Ra	nch Water Distr	ict			
Water	System Ni	ımber:	CA30100	92				
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		Title:		Regulatory Co	mpliance Admin	istrator		
		Phone 1	Number:	(949) 453-569	)	Date:	7/10/19	
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_		_		d.com/water-red Delivered the C	<b>port</b> CR to the Califor	nia Public	Utilities Cor	nmission

# **Consumer Confidence Report Electronic Delivery Certification**

Water systems utilizing electronic distribution methods for CCR delivery must complete this page by checking all items that apply and fill-in where appropriate. Water system mailed a notification that the CCR is available and provides a direct URL to the CCR on a publicly available website where it can be viewed (attach a copy of the mailed CCR notification). URL: www.irwd.com/water-report M Water system emailed a notification that the CCR is available and provides a direct URL to the CCR on a publicly available site on the Internet where it can be viewed (attach a copy of the emailed CCR notification). URL: www.irwd.com/water-report Water system emailed the CCR as an electronic file email attachment. Water system emailed the CCR text and tables inserted or embedded into the body of an email, not as an attachment (attach a copy of the emailed CCR). Requires prior DDW review and approval. Water system utilized other electronic delivery method that meets the direct delivery requirement. Provide a brief description of the water system's electronic delivery procedures and include how the water system ensures delivery to customers unable to receive electronic delivery. The IRWD Water Quality Consumer Confidence Report (CCR) is available online at www.irwd.com/water-report. A print article in July's 2019 Pipelines newsletter promoting this dedicated URL accompanied the July water bill mailed to approximately 51,000 customers. The first page of every July 2019 water bill contained a separate written message directing them to find the CCR at www.irwd.com/water-report. Approximately 54,900 customers also received an electronic copy of the July 2019 Pipelines via email. In addition, IRWD mailed approximately 57,886 postcards to customers who receive electronic bills only and mailed 7,336 postcards to landlords and/or property managers of tenants receiving water from IRWD. These postcards informed their recipients that the latest CCR was available online and a printed CCR would be mailed upon request. IRWD also ran advertisements in Four local newspapers of general circulation to further publicize the CCR link. Social media posts on

This form is provided as a convenience and may be used to meet the certification requirement of section 64483(c) of the California Code of Regulations.

Nextdoor, Facebook, Twitter, and Instagram were used to promote the availability of the document.

"Tap Water 101" workshop in which the content and tables of the CCR will be discussed in detail.

For additional outreach, IRWD residential customers were also invited to attend a September 19, 2019

# Julie Bendzick-Sin - Fwd: Confirming mid-June 2019 ad buy for 2019 IRWD Water Quality Report ad

From:

Julie Bendzick-Sin

To:

Julie Bendzick-Sin

Subject: Fwd: Confirming mid-June 2019 ad buy for 2019 IRWD Water Quality Report ad

Click to add a signature

>>> Julie Bendzick-Sin 6/10/2019 3:15 PM >>> Hi Nickie,

Yes, please run the attached IRWD 2019 WQR ad at the rates listed below. I updated all the 2019 dates to Thursday, June 20.

An updated Credit Card Authorization Form is also attached. Please process the credit card payment before June 22.

Thanks, Julie

Re: 2019 IRWD Water Quality Report

Irvine Ranch Water District

Acct #: 1001006310

1/8 pg process color Ad option 1/8 pg Vertical Ad Size = 4.89"w x 5.25"t

- > \* Irvine World News + Tustin News, Thur June 20, 2019 = \$150.08 (reg \$187.60)
- > \* Orange City News is now a part of Anaheim Bulletin, Thur June 20, 2019 = \$209.44 (reg \$261.80)
- > \* Newport Beach The Current is now called Coastal Current North, Thur June 20, 2019 = \$150.08 (reg \$187.60)
- > \* Saddleback Lake Forest/Laguna Hills, (pubs on Thurs now), Thur June 20, 2019 = \$209.44 (reg \$261.80)

Total (after all discounts) = \$719.04

# BE IN THE KNOW.

The IRWD 2019 Water Quality Report is now available at irwd.com/water-report



Finding out what's in your water is as transparent as water itself. Learn about the measures IRWD takes to ensure safe, reliable, quality drinking water. Simply visit irwd.com/water-report and you'll be in the know with the 2019 report.

To request a printed copy, email info@irwd.com with the subject line:
Water Quality Report.
Or call 949-453-5500.

IRWD 2019 WQR ad indd 1

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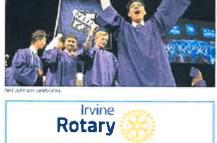
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Irvine Rotary

www.inviornatary.com tacebook.com,linyinerotary

## BE IN THE KNOW.

the IRWD 2019 Water Qualty Report is now available at lowd com/water-report



Finding out what's in your water is as transparent as water itself. Learn about the measures (PMD takes to ensure safe, reliable, quality driving water Smply visit move word get of 98 William me 2019 report

email infloatered.com with the subject line: Water Quality Report. Or cut 949-453-5500



TO ADVERTISE IN THE WORSHIP DIRECT CONTACT RETAIL ADVERTISING

714-796-7760





Th 06/20/2019 ▼

Anaheim Bulletin (Th 06/20)

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email infloorered com

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# **LAGUNA HILLS HIGH SCHOO**





# Dispute over Irvine Lake inches toward resolution with a gift of land to county

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Swhitzer lister would be fine.

define.
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Dr. Flora Stenger D.O.S. Inc.

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Advanced Connetto

Implants, Dercures and Full Mouth Reconstructs

# KEEP YOUR TEETH AND **GUMS HEALTHY**



# BE IN THE KNOW.

The IRWD 2019 Water Quality Report is now available at irwd.com/water-report.



15600 Sand Canyon Avenue, Irvine, CA 92618

PRESORT STD U,S. Postage PAID

Santa Ana, CA Permit No. 1208



Finding out what's in your water is as transparent as water itself.

To request a printed copy, email info@irwd.com with the subject line: Water Quality Report or call 949-453-5500.

# WATER QUALITY REPORT NOW AVAILABLE

# BE IN THE KNOW.

Finding out what's in your water is as transparent as water itself.

The 2019 Water Quality Report is now available. Learn about the measures Irvine Ranch Water District takes to ensure safe, reliable, quality drinking water. Simply visit **irwd.com/water-report**.

To request a printed copy, email **info@irwd.com** with the subject line: Water Quality Report, or call **949-453-5500**.

# YOUR WATER AT A GLANCE

- Meets or exceeds all state and federal water quality standards
- 100,000+ water quality analytical results reported annually
- More than 100 sample points throughout the District



2019 WATER QUALITY REPORT

# SO YOUR TENANTS ARE IN THE KNOW.

Irvine Ranch

15600 Sand Canyon Avenue, Irvine, CA 92618

PRESORT STD
U.S. Postage
PAID

Santa Ana, CA Permit No. 1208

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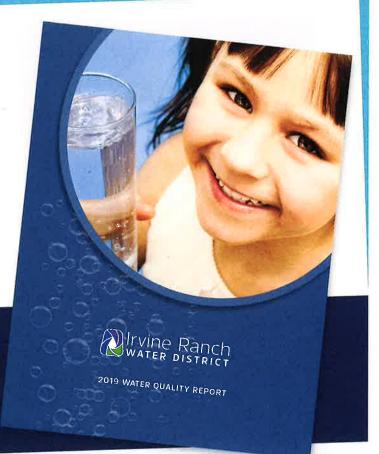
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# In This Issue: O.C. Poster Contest Winners Announced Summer Family Barbecue 2019 Water Quality Report Ask Juan

# Save the Date

# Summer Family Barbecue

Saturday, July 27 5 p.m. – 10 p.m.

IRWD San Joaquin Marsh

Campus Drive and Riparian View, Irvine

Enjoy dinner in the meadow, hosted by Sea & Sage Audubon Society. This family barbecue includes music, bird walks, a presentation about bats and a used nature book sale.

# **Details and tickets:** seaandsageaudubon.org

# IRWD Offices Closed

Independence Day Thursday, July 4

# Inspire Your Garden with Succulents

If you've ever thought about saving water by planting a colorful drought-tolerant landscape, IRWD has some new inspiration for you. Stop by our Sand Canyon Avenue office and check out our brand new succulent demonstration garden.



Succulents will thrive in the ground or in containers.

The idea for the garden was first broached by customers. It was planted in May and features myriad succulents such as:

 Coral Aloe – Used for bold textural accents in planting locations from full sun to partial shade, this plant has bright colored coral orange flower spikes during late winter and early spring.

- Emerald Empress Considered one of the easiest plants to grow, the Emerald Empress tolerates heat and drought and will flourish in locations such as rooftop gardens and container gardens.
- Royal Ruby Ideal for the rocky soil of rock gardens or planters, this succulent has rosettes ranging from ruby red to smoky grey-red and thrives with little care.

Create your own succulent garden at home.

- Explore the demo gardens at RightScapeNow.com/demo-garden.
- To discover the many shapes, sizes and colors of succulents you can plant, visit RightScapeResources.com/search.php and click "Succulents."
- If you replace all or part of your lawn with succulents, you might be eligible for a turf removal rebate. Learn more at RightScapeNow.com/rebates.

IRWD's Succulent Demonstration Garden, irrigated with recycled water, is adjacent to the parking area at 15600 Sand Canyon Ave., Irvine.



# O.C. Poster Contest Winners Announced

Congratulations to the winners of this year's Municipal Water District of Orange County poster contest! There were 12 winners from the IRWD service area, including students from Tustin Unified School District and Irvine Unified School District. Find out the names of the top students, listed on the homepage and Liquid News section of IRWD.com.

# Drink Up! 2019 Water Quality Report is Here

Irvine Ranch Water District water meets all of the exacting state and federal quality standards. Learn more in the new 2019 Water Quality Report, available now at IRWD.com/water-report. To

request a printed copy, email **info@IRWD.com** with the subject line "Water Quality Report" or call 949-453-5500.



# Tap Water 101 Workshop

Thursday, Sept. 19 • 6:30 p.m. – 8 p.m. IRWD Operations Center Multipurpose Room 3512 Michelson Dr., Irvine

Want to learn more about your drinking water? Hear from water quality experts, learn about IRWD's testing procedures and find out how our water compares to state and federal standards. Participation is limited to IRWD customers. Attendees must be 16 or older. Light refreshments will be served. Doors open at 6 p.m.

Sign-up required: IRWD.com/water-report

# **New Rates Effective July 1**

New water rates for Fiscal Year 2019-2020 went into effect July 1. For more information, visit IRWD.com/rates-charges.



Q: Juan, I'm thinking of redoing a portion of my landscape and I'm wondering if it's necessary to prepare or fix my soil. What are your thoughts?

A: What a great question! It all depends on the type of plant material that will be used. If you will be planting California natives, typically you want to leave the soil as is, just breaking it up to make it easier for planting. Mimic the "plant community" soils where the plants come from. For example, coastal sage scrub plant communities live in sandy soils to clayish soils.

The best amendment for any soil type is always compost. Compost is a soil conditioner, balancing soil pH that is important for nutrient uptake, suppressing plant diseases, and aerating

clay soils while increasing water-holding capacity in sandy soils. You can buy compost but better yet you can create your own. We have some great upcoming compost events, visit **RightScapeNow.com** to learn more.

Got landscape questions? Email **AskJuan@IRWD.com** or ask on Facebook, Twitter or Instagram with **#irwdcommunity**. See past answers at **RightScapeNow.com/landscape-resources/ask-juan**.

Sug	gested Weekly Sprinklei	System Watering Sche	dule
	Turfgrass	Drought-Tolerant Plants	% Option
July	4 days, 3 cycles of 3 minutes	2 days, 3 cycles of 4 minutes	100%
August	4 days, 3 cycles of 3 minutes	2 days, 3 cycles of 4 minutes	100%
September	4 days, 2 cycles of 3 minutes	2 days, 2 cycles of 4 minutes	70%

<sup>\*</sup>Some irrigation controllers have a feature by which the watering times can be set by changing the percentages instead of specifically entering the days, cycles and minutes.

To customize a watering schedule for systems other than sprinklers, visit **RightScapeNow.com/landscape-resources/watering-schedules**.



**24-Hour Customer Service:** 949-453-5300

**Email:** customerservice@irwd.com

Address: 15600 Sand Canyon Avenue, Irvine, CA 92618

Website: irwd.com

General Manager: Paul Cook, PE



# **IRWD 2019 Water Quality Report**

Since 1990, California public water utilities have provided an annual water quality report to their customers. **This year's report covers calendar year 2018 drinking water quality testing and reporting.** Irvine Ranch Water District (IRWD) vigilantly safeguards its water supply and, as in years past, the

water delivered to your home meets
the quality standards required by federal
and state regulatory agencies. The U.S.
Environmental Protection Agency
(U.S. EPA) and the State Water Resources
Control Board, Division of Drinking Water
(DDW) are the agencies responsible
for establishing and enforcing drinking
water quality standards.

IRWD and other regional water suppliers frequently go beyond what is required by testing for unregulated chemicals that may have health risks, but do not have drinking water standards. For example, the Orange County Water District (OCWD), which manages the groundwater basin; the Metropolitan Water District

of Southern California (MWD), which supplies imported treated surface water; and IRWD, which operates a local surface water treatment plant and several groundwater treatment plants, all test for unregulated chemicals in our water supply. Unregulated chemical monitoring helps U.S. EPA and DDW

determine where certain chemicals occur and whether new standards need to be established for those chemicals.

Through drinking water quality compliance testing programs carried out by OCWD (groundwater), MWD (treated surface water) and IRWD (treatment plants and the distribution system), your drinking water is constantly monitored

from source to tap for regulated and unregulated constituents.

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



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

يحتوي هذا التقرير على معلومات هـامـة عـن نـوعـية مـاء الشرب في منطقتك يرجى ترجمته، أو ابحث الـتقرير مع صديق لك يفهم هذه المعلومات جيداً.

Arabic

Der Bericht enthält wichtige informationen über die Wasserqualität in Ihrer Umgebung. Der Bericht sollte entweder offiziell uebersetzt werden, oder sprechen Sie mit Freunden oder Bekannten, die gute Englischkenntnisse besitzen.

German

이 보고서에는 귀하가 거주하는 지역의 수질에 관한 중요한 정보 가 들어 있습니다. 이 것을 변역 하거나 충분히 이해하시는 친구 와 상의하십시오.

Korean

这份报告中有些重要的信息, 讲到关于您所在社区的水的品质。请您找人翻译一下,或者 请能看得懂这份报告的朋友给 您解释一下。

Chinese

Questo rapporto contiene informazioni inportanti che riguardano la vostra aqua potabile. Traducetelo, o parlate con una persona qualificata in grado di spiegarvelo.

Italian

Este informe contiene información muy importante sobre su agua potable. Para mas información ó traducción, favor de contactar a Customer Service Representative. Telefono: 949-453-5300.

Spanish

Ce rapport contient des informations importantes sur votre eau potable. Traduisez-le ou parlez en avec quelqu'un qui le comprend bien.

French

この資料には、あなたの飲料水 についての大切な情報が書かれ ています。内容をよく理解する ために、日本語に翻訳して読む か説明を受けてください。

Japanese

Bản báo cáo có ghi những chi tiết quan trọng về phẩm chất nước trong cộng đồng quý vị. Hãy nhờ người thông dịch, hoặc hồi một người bạn biết rõ về vấn để này.

Vietnamese

# Questions about your water? Contact us for answers.

If you have questions about this report, please call Lars Oldewage, IRWD water quality manager, at 949-453-5858.

To reach IRWD Customer Service and for other information, please call 949-453-5300, or email customerservice@irwd.com.

# **Community participation**

The IRWD Board of Directors meets the second and fourth Monday of each month beginning at 5 p.m. at IRWD, 15600 Sand Canyon Avenue, Irvine, California 92618.

A copy of this report is also available on our website: irwd.com. For more informa-

tion about the health effects of the listed contaminants in the following tables, call the U.S. EPA Safe Drinking Water Hotline at 800-426-4791.

nese 800-2

# The quality of your water is our primary concern

# Sources of supply

IRWD is committed to providing a clean and reliable water supply for its customers. Our drinking water is a blend of groundwater from the Orange County Groundwater Basin and surface water imported by the Metropolitan Water District. MWD's imported water sources come from the State Water Project and the Colorado River Aqueduct. Local groundwater is pumped from a natural underground reservoir that stretches from the Prado Dam and fans across the northwestern portions of Orange County, stretching as far south as the El Toro "Y." Additional groundwater comes from the Harding Canyon Dam watershed in the Cleveland National Forest. Local groundwater comprises approximately 65% of the total IRWD drinking water supply.

After a five-year drought ended in 2017, California experienced record levels of rain and snow. Key reservoirs were replenished and many areas of the state had more opportunities to store water in critical groundwater aquifers. While a couple of wet winter years have been welcome, conserving water in our homes and businesses remains vitally important.

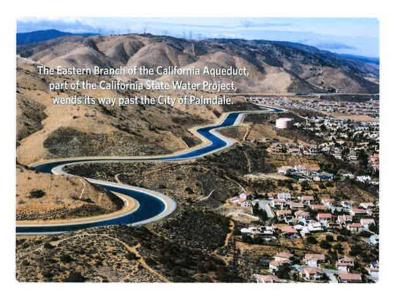
There are many areas where we can save water, particularly outdoors, where our gardens and lawns receive almost 60% of all the water we use. IRWD and its customers have always understood that smart water use needs to be our way of life. Visit RightScapeNow.com to learn how, together, we can make this happen.

# Basic information about drinking water contaminants

Drinking water sources (both tap and bottled water) may include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of land or through the layers of the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animal and human activity.

Contaminants that may be present in source water include:

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



- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production or mining activities.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic sewage discharges, oil and gas production, mining and farming.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gasoline stations, urban stormwater runoff, agricultural application and septic systems.

To ensure that tap water is safe to drink, the U.S. EPA and DDW prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. 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. 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 U.S. EPA Safe Drinking Water Hotline at 800-426-4791.

# Information the U.S. EPA would like you to know

# **Drinking water fluoridation**

Fluoride has been added to U.S. drinking water supplies since 1945. In December 2007, MWD joined a majority of the nation's public water suppliers in adding fluoride to drinking water to help prevent tooth decay. In line with recommendations from the DDW, as well as the U.S. Centers for Disease Control and Prevention, MWD adjusted the natural fluoride level in imported treated water from the Colorado River and State Project water to the optimal range for dental health of 0.6 to 1.2 parts per million.

IRWD's local groundwater contains naturally occurring fluoride, but is not supplemented with fluoride. Fluoride levels in drinking water are limited under California state regulations at a maximum dosage of 2 parts per million.

There are many places to go for additional information about the fluoridation of drinking water:

**U.S. Centers for Disease Control and Prevention** 800-232-4636 • cdc.gov/fluoridation

# State Water Resources Control Board, Division of Drinking Water

waterboards.ca.gov/drinking\_water/certlic/drinkingwater/Fluoridation.html

American Water Works Association: awwa.org

For more information about MWD's fluoridation program, please contact Edgar G. Dymally at 213-217-5709 or at edymally@mwdh2o.com.

# Cryptosporidium

*Cryptosporidium* is a microscopic organism that, when ingested, can cause diarrhea, fever, and other gastrointestinal symptoms.

The organism comes from animal and/or human waste and may be in surface water. MWD and IRWD tested the source waters and treated surface waters for *Cryptosporidium* in 2018 and did not detect it.

If detected, *Cryptosporidium* is eliminated by an effective treatment combination including sedimentation, filtration and disinfection.

The U.S. EPA 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 the U.S. EPA Safe Drinking Water Hotline at 800-426-4791.

# Immuno-compromised 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 chemotherapy, people who have had organ transplants, people with HIV/AIDS or other immune system disorders, some elderly people and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers.

## Total coliform rule

This Consumer Confidence Report (CCR) reflects changes in drinking water regulatory requirements instituted during 2016. All water systems are required to comply with the state Total Coliform Rule. Effective April 1, 2016, all water systems are also required to comply with the federal Revised Total Coliform Rule.

The new federal rule protects public health by ensuring the integrity of the drinking water distribution system by monitoring for the presence of microbials (i.e., total coliform and E. coli bacteria). U.S. EPA anticipates greater public health protection as the new rule requires water systems that are vulnerable to microbial contamination to identify and resolve potential issues. Water systems that exceed a specified frequency of total coliform occurrences are required to conduct an assessment to determine if any sanitary defects exist. If found, these must be corrected by the water system.

## **Chloramines**

Water imported from MWD and locally produced ground-water contains chloramines, a combination of chlorine and ammonia, as a drinking water disinfectant. Chloramines effectively kill bacteria and other microorganisms that may cause disease.

Chloramines have no odor when used properly.

People who use kidney dialysis machines may want to take special precautions and consult their physician for the appropriate type of water treatment.

Customers who maintain fish ponds, tanks or aquariums should also make necessary adjustments in water quality treatment, as these disinfectants are toxic to fish.

For further information or if you have any questions about chloramines please visit irwd.com or call 949-453-5300.

# Water quality issues that could affect your health

# About lead in tap water

IRWD meets all standards for lead in the U.S. EPA Lead and Copper Rule. 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.

IRWD 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. IRWD encourages you to collect the flushed water and reuse it for another beneficial purpose, such as watering potted plants.

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 epa.gov/safewater/lead.

If you are concerned about lead in your water, you may wish

to have your water tested.



Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months old. 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 are pregnant, you should ask advice from your health care provider.

# Want additional information? Explore water online.



There's a wealth of information on the internet about drinking water quality, water reliability and water issues in general. A good place to begin your research is **IRWD.com/water-report**.

In addition to extensive information about your local water and the support and services we offer, you'll find links to many other regional, statewide and national water resources.

You can also view "Journey of a Water Sample: How We Safeguard Your Water," a short video depicting the steps IRWD staff take to ensure the high quality of our drinking water.

# Enjoy keeping in the know via social media? Follow IRWD's water updates here:







YouTube
Watch us:
youtube.com/IrvineRanchWD



Instagram
Follow us:
@IRWDnews

II VIIIC I IZ	illoll Water I	PHG	Average	Average	Average	ig water	Quality	Results for 2018
Chemical	MCL MRDL	MRDLG (MCLG)	Local Treated Groundwater	Local Treated Surface Water	Imported MWD Treated Water	Range of Detections	MCL Violation?	Typical Source of Contaminant
Radiologicals - Tested in 2014 to 2	018							
Alpha Radiation (pCi/L)	15	(0)	<3	4.5	ND	ND - 5.2	No	Erosion of Natural Deposits
Uranium (pCi/L)	20	0.43	<1	2.4	ND	ND - 2.7	No	Erosion of Natural Deposits
Inorganic Chemicals - Tested in 20	16 to 2018		- 27				110	Erosion of Material Doposito
Aluminum (ppm)	1	0.6	ND	ND	0.12 (RAA)	ND - 0.31	No	Transment Drange Partidue, Natural December
Arsenic (ppb)	10	0.004	<2	ND	ND ND	ND - 3.1	No	Treatment Process Residue, Natural Deposits  Erosion of Natural Deposits
Barium (ppm)	1	2	ND ND	0.12	0.12	0.12 - 0.13	No	Erosion of Natural Deposits
Bromate (ppb)	10	0.1	NB.	NR	2.0	ND - 4.7	No	
Chlorine (ppm)	4.0	4	NR NR	2.2	NR	0.28 - 3.1		Byproduct of Drinking Water Ozonation
Chlorine Dioxide (ppb)	800	800	NR NR	100	NR NR		No	Drinking water disinfectant added for treatment
Chlorite (ppm)	000	0.05	NR NR			ND - 730	No	Drinking water disinfectant added for treatment
Fluoride (ppm) naturally-occurring	2	0.05	0.39	0.16	NR	0.04 - 0.23	No	Erosion of Natural Deposits
Fluoride (ppm) treatment-related		10	4,44	0.31	NR	ND - 1.5	No	Erosion of Natural Deposits
пионое фриц везанени-тенатео	Control Range 0.6 Optimal Level	0.7 pom	NR	NR	0.7	0.6 - 0.9	No	Water Additive for Dental Health
Nitrate (ppm as N)	10	10	1.4	ND	ND	ND - 9.8	No	Fertilizers, Septic Tanks
Nitrate+Nitrite (ppm as N)	10	10	1.4	ND	ND	ND - 9.8	No	Fertilizers, Septic Tanks
Selenium (ppb)	50	30	<5	ND	ND	ND - 6.2	No	Fertilizers, Septic Tanks
Secondary Standards* - Tested in 2	2016 to 2018	326	5,050	111000			1335	A action of scaling contribe
Aluminum (ppb)	200*	600	ND	ND	124 (RAA)	ND - 310	No	Treatment Process Residue, Natural Deposits
Chloride (ppm)	500*	n/a	31	92	94	14 – 109	No	Leaching from Natural Deposits; Seawater Influence
Cotor (color units)	15*	n/a	<3	<3	<1	ND - 5	No	Naturally-Occurring Organic Substances
Odor (TON)	3*	n/a	<1	1	2	1-8	No	Naturally-Occurring Organic Substances  Naturally-Occurring Organic Materials
ron (ppb)	300*	n/a	<100	ND	ND ND	ND - 205	No	
Specific Conductance (µmho/cm)	1,600*	n/a	430	1,056	906	303 - 1110	100,000	Leaching from natural deposits; industrial wastes
Sulfate (ppm)	500°	n/a	70	256	199	3.0 - 349	No No	lons in Water, Seawater Influence
Total Dissolved Solids (opm)	1,000*	n/a	265	682	565	140 - 726	No	Runoff or Leaching from Natural Deposits
Turbidity (NTU)	5*	n/a	<0.10	0.22	ND ND	ND - 0.45	No	Runoff or Leaching from Natural Deposits
PACSACTION I	250	IIra	<0.10	0.22	ND	IVD — U.45	NO	Erosion of Natural Deposits
Unregulated Contaminants - Tested								
Alkalinity, Total (ppm as CaCO <sub>3</sub> )	Not Regulated	n/a	150	150	106	56 - 229	n/a	Runoff or Leaching from Natural Deposits
Bicarbonate (ppm as HCO <sub>3</sub> )	Not Regulated	,n/a	178	180	NR	116 – 214	n/a	Runoff or Leaching from Natural Deposits
Boron (ppm)	NL = 1	n/a	<0.1	0.14	0.13	ND - 0.51	n/a	Runoff or Leaching from Natural Deposits
Bromide (ppm)	Not Regulated	n/a	<0.1	NR	NR	ND - 0.22	n/a	Runoff or Leaching from Natural Deposits
Calcium (ppm)	Not Regulated	n/a	42	77	58	2.4 - 124	n/a	Runoff or Leaching from Natural Deposits
Carbonate (ppm)	Not Regulated	n/a	3.7	0.6	NB	ND - 31	n/a	Runoff or Leaching from Natural Deposits
Chlorate (ppb)	NL = 800	n/a	NR	NR	30	30	n/a	Byproduct of Drinking Water Chlorination
Corrosivity (Aggressiveness)	Not Regulated	n/a	11.71	12.45	12.30	10.87 - 12.94	n/a	Elemental Balance in Water
Corrosivity (Langlier Index)	Not Regulated	n/a	(-)0.04	0.44	0.49	(-)0.87 - 1.2	n/a	Elemental Balance in Water
lardness, Total (ppm as CaCO <sub>3</sub> )	Not Regulated	n/a	144	320	240	6.6 - 439	n/a	Runoff or Leaching from Natural Deposits
fardness, Total (grains/gal)	Not Regulated	n/a	8.4	19	14	0.4 - 26	n/a	Runoff or Leaching from Natural Deposits
lexavalent Chromium (ppb)	Not Regulated	0.02	<1	ND	ND	ND - 1.4	No	Erosion of Natural Deposits; Industrial Discharge
Magnesium (ppm)	Not Regulated	n/a	17	31	23	ND - 36	n/a	Runoff or Leaching from Natural Deposits
rtho-Phosphate (ppm)	Not Regulated	n/a	0.24	NR	NR	ND - 8.6	n/a	Drinking Water Treatment Chemical for Aesthetic Qu
iH (pH units)	Not Regulated	n/a	8.2	8.0	8.1	7.4 - 8.8	n/a	Acidity, Hydrogen Ions
otassium (ppm)	Not Regulated	n/a	1.6	5.0	4.4	0.6 - 5.2	n/a	Runoff or Leaching from Natural Deposits
Sodium (ppm)	Not Regulated	n/a	58	92	92	30 - 121	n/a	Runoff or Leaching from Natural Deposits
otal Organic Carbon (ppm)	TT	n/a	0.79	3.0	2.4	ND - 7.3	TT	Various Natural and Man-Made sources
'anadium (ppb)	NL = 50	n/a	2.6	ND	ND	ND - 8.0	n/a	Runoff or Leaching from Natural Deposits
dditional Parameters That Are Not	Required, But May Re	Of Interest T	o Customers - Te	sted in 2018				
,4-Dioxane (ppb)	NL = 1	n/a	<1	NR	NR	ND - 1.3	n/a	Industrial Waste Discharge
1 Sauto (ppo)	INC - I	11/4	×1	ПИП	IND	IND - 1.3	II/d	indnamat Andare Discust Ag

Your water has been tested for many more chemicals than are listed above, including metals (such as mercury), pesticides and volatile organic compounds, Chemicals not detected in any water sources are not included in the lable.

\*Contaminant is regulated by a secondary standard to maintain aesthetic qualities (taste, odor, color).

ppb = parts-per-billion; ppm = parts-per-million; pCI/L = picoCuries per liter; NTU = nephelometric turbidity units; ND = not detected; n/a = not applicable; NB = not required to be tested; NL = Notification Level; <= average is less linan the detection limit for reporting purposes; MCL = Maximum Contaminant Level; (MCLG) = tederal MCL Goal; PHG = California Public Health Goal; pmho/cm = micromho per centimeter; TT = Treatment Technique; RAA = Highest Running Annual Average

Turbidity – combined filter effluent		Treatment Technique	Turbidity Measurements	TT Violation?	Typical Source of Contaminant
Baker Water Treatment Plant	1) Highest single turbidity measurement	0.1 NTU	0.066	No	Soil Run-Off
	2) Percentage of samples less than 0.3 NTU	95%	100%	No	Soil Run-Off
Metropolitan Water District Diemer Filtration Plant	Highest single turbidity measurement	0.3 NTU	0.07	No	Soil Bun-Off
	<ol><li>Percentage of samples less than 0.3 NTU</li></ol>	95%	100%	No	Soil Run-Off

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 Melropolitan'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 contaminants in drinking water that are difficult and sometimes impossible to measure directly.

Unregulated Chemicals Requiring Monitoring at Entry Points to the Distribution System							
Chemical	Notification Level	PHG	Average Local and Imported	Range of Detections	Most Recent Sampling		
1,4-Dioxane (ppb)	1	n/a	0.1	ND - 0.45	2014		
Brornochloromethane (ppb)	n/a	n/a	< 0.06	ND - 0.12	2014		
Chlorate (ppb)	800	n/a	169	ND - 710	2014		
Chromium, Hexavalent (ppb)	n/a	0.02	0.22	ND - 0,72	2014		
Chromium, Total (ppb)**	MCL = 50	MCLG = 100	0.2	ND - 0.7	2014		
Germanium, Total (ppb)	n/a	n/a	<0.30	ND - 0.40	2018		
Manganese, Total (ppb)***	SMCL = 50	n/a	1,8	0.8 - 2.7	2018		
Molybdenum, Total (ppb)	n/a	n/a	6.4	1.3 – 19	2014		
Strontium, Total (ppb)	n/a	n/a	536	163 - 1100	2014		
Vanadium, Total (ppb)	50	n/a	2.6	0.7 – 4.3	2014		

SMCL = Secondary MCL

\*\*\*Total manganese is regulated with an secondary MCL of 50 ppb but was not detected, based on the detection limit for purposes of reporting of 20 ppb. Total manganese was included as part of the unregulated chemicals requiring monitoring.

Total chromium is regulated with an MCL of 50 ppb but was not detected, based on the detection limit for purposes of reporting of 10 ppb.
Total chromium was included as part of the unregulated chemicals requiring monitoring.

	2018 Irvine Ra	nch Water Dis	trict Distributio	n System Wate	er Quality
Disinfection Byproducts	MCL (MRDL/MRDLG)	Average Amount	Range of Detections	MCL Violation?	Typical Source of Contaminant
Total Trihalomethanes (ppb)	80	49***	ND - 73	No	Byproducts of Chlorine Disinfection
Haloacetic Acids (ppb)	60	16***	ND - 27	No	Byproducts of Chlorine Disinfection
Chlorite (ppm)	1	0.18	0.12 - 0.26	No	Byproduct of Chlorine Dioxide used in Treatment
Chlorine Residual (ppm)	(4.0 / 4)	1.8	ND - 4.1	No	Disinfectant Added for Treatment
Aesthetic Quality					Salara Salar
Color (color units)	15*	<3	ND - 50	No	Erosion of Natural Deposits
Turbidity (ntu)	5*	0.17	ND - 15	No	Erosion of Natural Deposits
Odor (threshold odor number)	3*	<1	ND - 8	No	Erosion of Natural Deposits
Other					
Fluoride (mg/l)	2/0.8**	0.54	0.22 - 0.87	No	Erosion of Natural Deposits, Water Treatment

Twelve locations in the distribution system are tested quarterly for total trihalomethanes and haloacetic acids; 60 locations are tested monthly for color and odor, and weekly for choine residual and turbidity. MRDL — Maximum Residual Disrinectant Level; MRDLS — Maximum Residual Disrinectant Level Goal \*Contaminant is regulated by a secondary standard

"MCL/Optimum Level for our climate

\*\*\*Highest running annual average at any individual sample location.

Bacterial Quality	MCL	MCLG	Highest Monthly % Positive Samples	MCL Violation?	Typical Source of Contaminant
Total Coliform Bacteria	5%	0	0.3%	No	Naturally Present in the Environment
Heterotrophic Plate Count Bacteria	5%	n/a	0.4%	No	Naturally Present in the Environment

No more than 5% of the monthly samples may be positive for total coliform bacteria.

The occurrence of 2 consecutive total coliform positive samples, one of which contains fecal coliform/E.coli, constitutes an acute MCL violation.

A syslem is in non-compliance if more than 5% of samples collected in a given month have Heterotrophic Plate Counts greater than 500 colony forming units per millilitier and no detectable chlorine residual,

		Lead a	and Copper Ac	tion Levels at Res	sidential Taps	S
	Action Level (AL)	Public Health Goal	90 <sup>th</sup> Percentile Value	Sites Exceeding AL / Number of Sites	AL Violation	Typical Source of Contaminant
Copper (ppm)	1.3	0,3	0.255	0/71	No	Corrosion of Household Plumbing
Lead (ppb)	15	0.2	<5	0/71	No	Corrosion of Household Plumbing

The most recent lead and copper at-the-tap samples were collected from 71 residences in 2016.

Lead was detected in 2 homes and copper was detected in 40 homes, but none of the samples for lead and copper exceeded the respective regulatory Action Level (AL).

A regulatory Action Level is the concentration of a contaminant which, if exceeded in more than 10% of samples, triggers freatment or other requirements that a water system must follow.

8 schools requested testing for lead in 2018,

	Unregulated Chemicals Requiring Monitoring in the Distribution System							
Chemical	Notification Level	PHG	Average Amount	Range of Detections	Most Recent Sampling Date			
Chlorate (ppb)	800	n/a	265	31.5 – 710	2014			
Chromium, Hexavalent (ppb)	n/a	0.02	0.24	0.09 - 0.54	2014			
Chromium, Total (ppb)**	MCL = 50	MCLG = 100	0.2	ND - 0.5	2014			
Germanium, Total (ppb)	n/a	n/a	< 0.30	ND - 0.5	2018			
Manganese, Total (ppb)***	SMCL = 50	n/a	1.7	1.2 - 2.6	2018			
Molybdenum, Total (ppb)	n/a	n/a	5.8	2.9 – 17	2014			
Strontium, Total (ppb)	n/a	n/a	431	185 - 1000	2014			
Vanadium, Total (ppb)	50	n/a	2.6	1.6 - 3.9	2014			

SMCL = Secondary MCL

\*Total chromium was included as part of the unregulated chemicals requiring monitoring,

\*\*\*Total manganese is regulated with an secondary MCL of 50 ppb but was not detected, based on the detection limit for purposes of reporting of 20 ppb. Total manganese was included as part of the unregulated chemicals requiring monitoring.

# **Chart legend**

## What are water quality standards?

Drinking water standards established by U.S. EPA and DDW set limits for substances that may affect consumer health or aesthetic qualities of drinking water. The chart in this report shows 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 are 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.

## What is a water quality goal?

In addition to mandatory water quality standards, U.S. EPA 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 chart in this report includes 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 U.S. EPA.
- 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.

## 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 (µg/L)
- Parts per trillion (ppt) or nanograms per liter (ng/L)

# Source water assessments

## Imported (MWD) water assessment

Every five years, MWD 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 watershed sanitary surveys of its source water supplies from the Colorado River was updated in

2015 and the State Water Project was updated in 2016. Both source waters are exposed to stormwater runoff, recreational activities, wastewater discharges, wildlife, fires, and other watershed-related factors that could affect water quality.

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

U.S. EPA also requires MWD to complete one Source Water Assessment (SWA) that uses information collected in the watershed sanitary surveys. MWD 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 MWD at 800-CALL-MWD (800-225-5693).

# (IRWD) Baker Water Treatment Plant water assessment

The Baker Water Treatment Plant receives untreated surface water from MWD (see MWD water assessment above) and untreated surface water from Irvine Lake (Santiago Reservoir). The surface water assessment of Santiago Reservoir is provided by Serrano Water District, which also uses source water from Santiago Reservoir.

The most recent watershed sanitary survey for Santiago Reservoir was updated in 2014. Water supplies from Santiago Reservoir are most vulnerable to septic tank, landfill and dump activities. The Source Water Assessment for Santiago Reservoir was completed in April 2001. The assessment was conducted for the Serrano Water District by Boyle Engineering Corporation with assistance from the Serrano Water District staff.

A copy of the complete assessment may be viewed at the IRWD Water Quality Department, 3512 Michelson Drive, Irvine. You may request a summary of the assessment by writing to District Secretary, Irvine Ranch Water District, 15600 Sand Canyon Avenue, Irvine, California 92618.

## **Groundwater assessment**

An assessment of the groundwater sources in the Lake Forest service area of IRWD was completed in December 2002. This groundwater is considered most vulnerable to contamination from dry cleaners and sewer collection systems.

An assessment of the groundwater sources in the Dyer

Road Well Field was completed in July 2003. This groundwater is considered most vulnerable to contamination from gas stations, historic gas stations, metal plating/

finishing/fabrication facilities, military installations and plastics/synthetics producers.

An assessment of the groundwater sources in the Wells 21-22 Desalter Project was completed in May 2009. This groundwater is considered most vulnerable to contamination from sewer collection

systems, automobile (gas stations), historic gas stations and underground storage tanks (confirmed leaking tanks).

An assessment of the groundwater sources in the Irvine Desalter Project was completed in March 2006. This groundwater is considered most vulnerable to contamination from crop irrigation and fertilizers.

An assessment of the groundwater source in the Orange Park Acres service area of IRWD was completed in March 2003. This groundwater is considered most vulnerable to contamination from sewer collection systems.

An assessment of the groundwater in the Santiago Canyon service area of IRWD was completed in January 2003. There have been no contaminants detected in the water supply, however the source is still considered vulnerable to contamination from historical mining operations.

Copies of the complete assessments may be viewed at the IRWD Water Quality Department, 3512 Michelson Drive, Irvine. You may request a summary of the assessments by writing to District Secretary, Irvine Ranch Water District, 15600 Sand Canyon Avenue, Irvine, California 92618.

# Sustainability is our way of life



We live in a semi-arid, drought-prone environment and need to use our high-quality water supplies as efficiently as possible. Because about 60% of household water use occurs outdoors, it pays to focus on saving water outside. Here are some things you can do to reduce outdoor water use:

- · Replace grass with drought-friendly landscaping, including permeable ground cover and hardscape.
- · Adjust watering times monthly to match the weather. Weather-based irrigation controller rebates are available.\*
- · Water landscape before 8 a.m. or after 5 p.m. and avoid watering at windy times of the day.
- · Check irrigation systems for leaks and overspray, promptly repairing or adjusting the system as needed.
- · Apply mulch around trees, shrubs and flowers. Mulch also naturally reduces weed growth.
- Replace sprinkler heads with rotating spray nozzles or convert to drip irrigation. Rotating spray nozzle
  rebates are available.\*



The IRWD RightScape program offers many other helpful resources, such as rebates, classes, training and efficient sprinkler and drip irrigation schedules. Visit **RightScapeNow.com** to learn more.

## Live in an apartment or condo? There are still ways to save!



- Use a water-efficient clothes washer, dishwasher and shower nozzles. Clothes washer rebates are available.\*
- · Run only full dishwasher and clothes washer loads.
- Don't wash or hose down hardscapes when you can sweep instead.
- · Take 5-minute instead of 10-minute showers and be sure to use a water-efficient shower head.

\*Rebates available while funding lasts.