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SOLICITE LA VERSIÓN EN ESPAÑOL Si desea solicitar esta información en español, visite WesternWaterCA.gov/WaterQualityReport seleccione español o llame al 951.571.7104 para solicitar una copia en español por correo.





CRAIG MILLER GENERAL MANAGER



Every drop of water represents our commitment

to high-quality service and a promise of innovation for generations to come. Making sure that our water is monitored and regulated, from source to tap. When customers turn on their tap, we want them to know they can count on their water being safe to drink, today and always.

MESSAGE FROM THE GENERAL MANAGER

Dear valued Western Water customer,

As General Manager of the Western Municipal Water District (Western Water), I am proud to share with you the **2023 Annual Water Quality Report.** This report, also known as the Consumer Confidence Report, underscores our commitment to transparency and provides detailed insights into the quality of the water you rely on every day.

In 2023, Western Water continued its dedication to delivering safe and reliable drinking water, consistently meeting the rigorous standards set by the United States Environmental Protection Agency and the California State Water Resources Control Board. Through monitoring and testing conducted at over 117 locations within our distribution system and over 34,000 tests, we ensure that our water consistently meets the highest quality standards.

Every drop of water signifies our dedication to excellence in service and innovation for future generations. We work 24/7 to ensure a seamless water flow for our community, contributing to economic stability and enhancing our region's quality of life. But we don't stop there; our mission goes beyond our region. We are committed to helping California develop long-term water strategy solutions.

Western Water placed a greater focus on fostering collaboration and partnerships that pave the way for California's sustainable water future. We are actively engaged in advocating for statewide water reliability, spearheading a coalition of water agencies in Sacramento. Our objective is to revolutionize water management in California, transitioning from a focus on scarcity to achieving ample water supply targets for our communities, agriculture, and the environment.

Creatively maximizing every customer dollar is as vital to us as creatively conserving every drop of water. Your monthly rates sustain the availability of clean, safe water and efficient wastewater systems, safeguarding public health and the environment. This extensive process would not be possible without your investment, enabling us to work towards preventing service disruptions and environmental impacts.

We encourage all customers to read this report to gain a better understanding of the quality of your water and the customer support programs we offer.

Thank you for your continued trust and partnership.





Guidelines set by the State Water Resources Control Board for distributing this report allow for electronic delivery of the report instead of a paper copy delivered through the United States Postal Service. By providing these reports electronically, Western Water can reduce costs and eliminate paper waste associated with printing and mailing the full report to our more than 25,000 accounts.

Please note that you may change your delivery preference at any time. Western Water is happy to mail you a paper copy of this report upon request.

To request a paper copy of this report you can do so by calling us at 951.571.7119 or via email to outreach@wmwd.com.

OUR MISSION

Western Water provides water supply, recycled water services, and water resource management to the public in a safe, reliable, environmentally sensitive, and financially responsible manner.

OUR VISION

To enhance Western Water's leadership role by integrating the best-in-business processes and business systems while developing a leading-edge workforce that continuously creates greater efficiency and value for our customers.

WE GUARANTEE THE QUALITY AND RELIABILITY OF YOUR DRINKING WATER

Since 1954, Western Water has been dedicated to providing essential water, wastewater (sewer), and recycled water services to nearly 1 million people in western Riverside County. As an agency, we serve as both a direct water provider to customers and a wholesale water supplier to local water districts and cities.

The drinking water that Western Water provides to homes, businesses, and schools meets all state and federal water quality standards. The State Water Resources Control Board (SWB), Division of Drinking Water (DDW), and the Environmental Protection Agency (EPA) are the agencies responsible for establishing and enforcing drinking water quality standards.

In addition to performing over 34,500 tests for more than 240 contaminants, impurities, and water quality parameters, Western Water also tests for unregulated chemicals that may have health risks, but do not have drinking water standards. This monitoring of unregulated chemicals aids the EPA and DDW in identifying their presence and evaluating the need to establish new standards.

Western Water is committed to delivering a sustainable water supply while proactively adapting to the challenges posed by climate change and escalating drought conditions. Through our recently completed "Connecting the Drops" project, we are spearheading initiatives focused on stormwater management, recycling, and enhancing groundwater quality. These endeavors are instrumental in advancing our agency's water supply objectives, with the introduction of approximately 253 million gallons of fresh local groundwater to the region.

In addition, we have formed a groundbreaking partnership with six water agencies throughout Southern California. This collaboration allows us to procure surplus water during wet years via the State Water Project, subsequently storing it in six strategically located groundwater basins within the Santa Ana Watershed. This visionary approach ensures the availability of a more abundant water supply during dry years.

Moreover, Western Water is committed to significant investments in innovative infrastructure projects, including developing groundwater wells, treatment facilities, and conveyance systems. Securing millions of dollars in grant funding for design and construction, we actively support and drive these initiatives forward.

This comprehensive approach plays a pivotal role in storing more water during wet years, subsequently increasing the availability of water during dry periods. By combining these resources, we can operate more efficiently and provide a better water supply for our customers. We're excited to advance our efforts toward water supply reliability and continue to invest in our local water supplies and infrastructure for our customers 24 hours a day, 7 days a week, 365 days a year.

SOURCE WATER ASSESSMENT

A source water assessment lists possible contaminants that might affect the quality of your water sources. Assessments were completed for the two surface water sources Western Water utilizes, the State Water Project and Colorado River. In 2021, the State Water Project was reassessed, and in 2020, the Colorado River. Both were found to be most vulnerable to stormwater runoff, recreational activities, wastewater discharges, wildlife, fires, and other watershed-related factors that could affect water quality.

A drinking water source assessment for the Murrieta service area was completed in June 2020 for one of the groundwater wells. The source is considered most vulnerable to the following activities associated with contaminants detected in the water supply: historic gas station, pest control storage, underground storage tanks, and sewer collection systems.



Additionally, the SWB completed sanitary surveys for the:

- Riverside service area in 2018:
- Murrieta service area in 2022; and
- Rainbow service area in 2021.

A sanitary survey is an on-site review of a public water system for the purpose of evaluating the adequacy of the water source, facilities, equipment, operation, and maintenance for producing and distributing safe drinking water. No significant deficiencies were identified during the surveys.

A copy of the complete assessment is available at Western Water. You may request a summary of the assessment be sent to you by contacting **951.571.7104**.

YOUR DRINKING
WATER IS
CONSTANTLY
MONITORED AND
TESTED,
FROM SOURCE
TO TAP.

34K + SERVING SERVING 527 - SQUARE MILES

117 SAMPLING LOCATIONS



SPECIAL HEALTH INFORMATION

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised individuals, which include those with cancer who are undergoing chemotherapy, those who have undergone organ transplants, those with HIV/AIDS or other immune system disorders, and some elderly individuals and infants can be particularly at risk of infections.

Water quality monitoring indicates no Cryptosporidium organisms in the finished water. Cryptosporidium is a microbial pathogen found in surface water throughout the United States. Although filtration removes Cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised individuals are at greater risk of developing a life-threatening illness. Western Water encourages immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may spread through means other than drinking water.

Individuals with special health concerns should seek advice about drinking water from their healthcare provider. Both the EPA and the Centers for Disease Control and Prevention have guidelines on ways to reduce the risk of infection from Cryptosporidium and other microbial contaminants and are available from the Safe Drinking Water Hotline at 1.800.426.4791 or online at epa.gov/safewater.

Your drinking water meets all state and federal standards requiring arsenic and nitrate levels to be below 10 mg/L. While you may see arsenic levels below 10 mg/l, it is important to understand the possible health effects at such low levels relative to the cost of eliminating the substance from drinking water. The EPA continues

to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Arsenic and Nitrate levels in all of Western

Water's service areas are below the state

and federal standards of 10 mg/L.



Nitrate in drinking water at levels above 10 mg/L is a health risk for infants less than 6 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 can include shortness of breath and blueness of skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant or you are pregnant, you should ask advice from your healthcare provider.

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. 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, that 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, that 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 EPA and the State Water Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Water Board regulations 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 EPA Safe Drinking Water Hotline 1.800.426.4791. Western Water continues to ensure your water is safe to drink.

JUST THE FACTS ON PFAS

PFAS, short for per- and polyfluoroalkyl substances, are a group of more than 4,700 synthetic chemicals created to repel water, oil, grease, and stains. The chemicals, dating to the 1940s, have been found to be nearly indestructible over time. These chemicals appear in a range of industrial and everyday consumer products, including makeup, food wrappers, nonstick cookware, carpets, stain repellents, and firefighting foams.

Because PFAS have been so widely used, most Americans have been exposed to them through sources other than their drinking water. People ingest PFAS by eating, drinking, or breathing the chemicals when they are present in food, water, fire retardants, and consumer and industrial products. Based on research cited by the DDW, most people are exposed to PFAS through food—via food packaging, farming processes, or bioaccumulation (gradual chemical buildup).

Over time, PFAS have also accumulated in land near airports, industrial sites, military bases, and landfills. Once PFAS leach into the land, the chemicals can, in some cases, seep into the local groundwater.

Western Water continues to adhere to DDW's guidelines for the monitoring of PFAS. The State Water Board has established reporting levels for PFAS. Learn more about these forever chemicals at **WesternWaterCA.gov/PFAS**.

LEAD AND COPPER RULE

The Lead and Copper Rule (LCR) was developed to protect public health by minimizing lead and copper levels in drinking water. The most common source of lead and copper in drinking water is corrosion of plumbing materials. Plumbing materials that can be made with lead and copper include pipes, solder, fixtures and faucets. The LCR established an action level of 15 ppb (parts per ballion) for lead and 1.3 ppm (parts per million) for copper based on the 90th percentile level of tap water samples. If more than 10 percent of the samples are above either action level, further actions are required. Lead and copper are sampled on a state-mandated 3-year testing cycle with sampling conducted at selected customer taps.

Testing has confirmed that Western Water's drinking water, most of which is imported from Northern California snowmelt, is safe and does not contain PFAS above state-mandated notification levels. Learn more about these forever chemicals at WesternWaterCA.gov/PFAS.



The LCR requires Western Water to sample at locations that may be particularly susceptible to high lead or copper concentrations. With a tiered system for prioritizing sampling sites, federal regulations prioritize sampling for single-family structures with copper pipes that have lead solder installed after 1982. Western Water's sample locations remain the same for each sampling event unless voluntary participation from its customers is not sufficient to meet the minimum required samples per the LCR.

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. Western Water is responsible for providing high-quality drinking water but cannot control the variety of materials used in plumbing components beyond the meter. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to two minutes before using water for drinking or cooking. If you 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 at 1.800.426.4791 or at epa.gov/safewater/lead.

LEAD SAMPLING IN SINGLE-FAMILY STRUCTURES

Thirty-four homes were tested in the Riverside service area within the last 3-year testing cycle, completed in 2022. Thirty homes were tested in the Murrieta service area within the last 3-year testing cycle, completed in 2022. Six homes were tested in the Rainbow service area within the last 3-year testing cycle completed in 2021.

LEAD SAMPLING IN SCHOOLS

No schools requested sampling for lead in 2023. To schedule lead testing for your school, contact Western Water's Water Quality team at 951.789.5119.



Lead and Copper Testing Regulated at Customer's Tap	Lead (µg/L)	Copper (mg/L)		
Action Level @ 90th Percentile	15	1.3		
California Public Health Goal (PHG)	0.2	0.3		
Detection Limits for Purposes of Reporting (DLR)	5	0.05		
Riverside, 2022 Monitoring				
90th percentile value	ND	0.26		
# of homes over action level	0 of 34	0 of 34		
Murrieta, 2022 Monitoring				
90th percentile value	ND	0.15		
# of homes over action level	0 of 30	0 of 30		
Rainbow, 2021 Monitoring				
90th percentile value	ND	0.07		
# of homes over action level	0 of 6	0 of 6		





WATER QUALITY TABLES

2023 WATER QUALITY TABLE



RETAIL SYSTEM

	Units	State/Fed	PHG	DLR			ervice Area				Service Are			rvice Area ^(c)	
	of Measure	MCL [MRDL]	(MCLG) [MRDLG]	(CCRDL) [RL]	Local Gro Average	undwater Range	Surface Average	Water Range	Local Gro	undwater Range	Surfa Average	Range	Surfac Average	e Water Range	Primary Sources
Primary Standards, M					Average	Range	Average	Range	Average	Range	Average	Ralige	Avelage	Range	
Clarity					Highest		Highest	% ≤ 0.3			Highest	% ≤ 0.3 % ≤ 0.1	Highest	% ≤ 0.3	
Turbidity	NTU	TT ^(d)	NA	NA	0.07	NA	0.07	100	NA	NA	0.88	100 99.36	0.07	100	Soil runoff
Disinfection Byprodu	ct Precurso	ors													
Total Organic Carbon (TOC)	mg/L	TT	NA	0.3	No Data	No Data	2.2	1.8 - 2.7	0.5	ND - 5.3	2.8	2.2 - 3.5	2.6	2.3 - 3.0	Various natural and manmade sources
Inorganic Chemicals															
Aluminum ^(e)	μg/L	1000	600	50	ND	ND-90	60	ND - 68	ND	NR	ND	ND - 110	113	ND - 110	Erosion of natural deposits; residue from some surface water treatment processes
Arsenic	μg/L	10	0.004	2	ND	ND - 4	ND	NR	ND	ND - 9.1	ND	ND - 2	ND	NR	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium	mg/L	1	2	0.1	ND	NR	ND	NR	0.1	ND - 0.3	ND	ND - 0.1	0.1	NR	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Fluoride	mg/L	2	1	0.1	0.2	ND - 0.5	0.7	0.6 - 0.8	0.2	ND - 0.4	0.3	ND - 0.8	0.7	0.6 - 0.8	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nickel	μg/L	100	12	10	ND	ND - 29	ND	NR	ND	NR	ND	NR	ND	NR	Erosion of natural deposits; discharge from metal factories
Nitrate (N)	mg/L	10	10	0.4	5.1	3.3 - 6.9	0.8	NR	0.8	ND - 3.6	ND	ND - 1.1	ND	NR	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Perchlorate	μg/L	6	1	2	ND	ND - 3	ND	NR	ND	NR	ND	NR	ND	NR	Perchlorate is an inorganic chemical used in solid rocket propellant, fireworks, explosives, flares, matches, and a variety of industries. It usually gets into drinking water as a result of environmental contamination from historic aerospace or other industrial operations that used or use, store, or dispose of perchlorate and its salts.
Selenium	μg/L	50	30	5	ND	NR	ND	NR	ND	ND - 9	ND	NR	ND	NR	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)

	Units	State/Fed	PHG	DLR	F	liverside Se	rvice Area	(a)			Service Are	a ^(b)	Rainbow Se	rvice Area ^(c)	
	of	MCL	(MCLG)	(CCRDL)	Local Gro	undwater	Surface	e Water	Local Gro	undwater	Surfa	ce Water	Surfac	e Water	Primary Sources
	Measure	[MRDL]	[MRDLG]	[RL]	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	
Radiological															
Gross Alpha	pCi/L	15	(O)	3	ND	ND - 3	ND	NR	ND	ND - 11	ND	ND - 4	ND	ND - 4	Erosion of natural deposits
Gross Beta	pCi/L	50	(O)	4	No Data	No Data	ND	ND - 4	5	ND - 20	4	ND - 8	ND	ND - 8	Decay of natural and man-made deposits
Radium 228	pCi/L	5	0.019	1	ND	NR	ND	ND - 1	ND	NR	ND	NR	ND	NR	Erosion of natural deposits
Uranium	pCi/L	20	0.43	1	3	ND - 11	ND	NR	2	ND - 7	ND	ND - 3	2	ND - 3	Erosion of natural deposits
Secondary Standards -	- Aesthetic	Standards													
Aluminum ^(e)	μg/L	200	600	50	ND	ND - 90	60	ND - 68	ND	NR	ND	ND - 110	113	ND - 110	Erosion of natural deposits; residu from some surface water treatme processes
Chloride	mg/L	500	NA	NA	50	29 - 95	41	38 - 44	84	10 - 150	79	25 - 116	91	72 - 110	Runoff/leaching from natural deposits; seawater influence
Iron	μg/L	300	NA	100	ND	NR	ND	NR	ND	ND - 309	ND	NR	ND	NR	Leaching from natural deposits; industrial wastes
Sulfate	mg/L	500	NA	0.5	41	5.4 - 69	41	32 - 50	49	7.7 - 216	41	19 - 236	174	113 - 236	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS)	mg/L	1000	NA	NA	290	200 - 460	204	200 - 207	336	162 - 634	213	145 - 691	536	401 - 670	Runoff/leaching from natural deposits
Manganese	µg/L	50; NL = 500	NA	20	ND	NR	ND	NR	ND	ND - 40	ND	NR	ND	NR	Leaching from natural deposits
Specific Conductance	μS/cm	1600	NA	NA	485	360 - 600	358	357 - 359	567	308 - 969	363	239 - 1080	852	664 - 1040	Substances that form ions in water seawater influence
Notification Levels, No	onregulato	ry Standar	ds												
Boron	µg/L	NL = 1000	NA	100	ND	NR	130	NR	139	ND - 551	140	ND - 182	130	NR	Runoff/leaching from natural deposits; industrial wastes
Chlorate	μg/L	NL = 800	NA	[10]	No Data	No Data	ND	NR	No Data	No Data	17	NR	17	NR	Byproduct of drinking water chlorination; industrial processes
N-Nitrosodimethylamine (NDMA)	ng/L	NL= 10	3	[2]	ND	NR	2	ND - 5	No Data	No Data	3	NR	3	NR	Byproduct of drinking water chlorination; industrial processes
Perfluorooctanesulfonic Acid (PFOS) ^(f)	ng/L	NL = 6.5	NA	(4)	ND	ND - 4	ND	NR	ND	ND - 5	ND	NR	ND	NR	Industrial chemical factory discharges; runoff/leaching from
Perfluorobutanesulfonic Acid (PFBS) ^(f)	ng/L	NL = 500	NA	(3)	ND	ND - 3	ND	NR	ND	NR	ND	NR	ND	NR	landfills; used in fire-retarding foams and various industrial
Perfluorohexanesulfonic Acid (PFHxS) ^(f)	ng/L	NL = 3	NA	(3)	ND	ND - 3	ND	NR	ND	ND - 3	ND	NR	ND	NR	processes
Vanadium	μg/L	NL = 50	NA	3	3	ND - 7	3	NR	No Data	No Data	ND	NR	ND	NR	Naturally occurring; industrial wa discharge

	Units	State/Fed	PHG	DLR	R	liverside Se	rvice Area	(a)		Murrieta	Service Area	(b)	Rainbow Se	ervice Area ^(c)	
	of	MCL	(MCLG)	(CCRDL)	Local Gro	undwater	Surface	Water	Local Gro	undwater	Surfac	e Water	Surfac	e Water	Primary Sources
	Measure	[MRDL]	[MRDLG]	[RL]	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	
Unregulated Contamin	ant Monit	oring													
Chlorodibromoacetic Acid ^(g)	μg/L	NA	NA	NA	0.08	ND - 0.33	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	Byproduct of drinking water disinfection
Chromium, Hexavalent	µg/L	NA	0.02	1	ND	ND - 1	ND	NR	ND	NR	ND	NR	ND	NR	Runoff/leaching from natural deposits; discharge from industria wastes
Germanium ^(g)	μg/L	NA	NA	(0.3)	ND	ND - 0.44	No Data	No Data	ND	NR	No Data	No Data	No Data	No Data	Naturally-occurring element; byproduct of zinc ore processing; used in solar, electronics and optic systems
Lithium ^(f)	µg/L	NA	NA	(9)	ND	ND - 9	ND	ND - 16	ND	NR	10	ND - 43	30	18 - 43	Naturally-occurring; used in electrochemical cells, batteries, and organic syntheses and pharmaceuticals
Perfluorobutanoic Acid (PFBA) ^(f)	ng/L	NA	NA	(5)	ND	NR	ND	NR	ND	NR	ND	ND - 5	ND	NR	
Perfluoropentanoic Acid (PFPeA) ^(f)	ng/L	NA	NA	(3)	ND	ND - 7	ND	NR	ND	NR	ND	NR	ND	NR	Industrial chemical factory discharges; runoff/leaching from
Perfluorohexanoic Acid (PFHxA) ^(f)	ng/L	NA	NA	(3)	ND	ND - 4	ND	NR	ND	NR	ND	NR	ND	NR	landfills; used in fire-retarding foams and various industrial processes
Other Parameters Test	ed														
Alkalinity, Total	mg/L	NA	NA	NA	129	89 - 200	60	57 - 64	109	32 - 334	97	48 - 143	108	92 - 125	
Calcium	mg/L	NA	NA	NA	47	31 - 69	18	17 - 20	44	22 - 105	38	14 - 78	56	39 - 72	D ((())) () () () ()
Hardness	mg/L	NA	NA	NA	159	110 - 220	80	79 - 80	139	57 - 301	162	59 - 307	228	165 - 291	Runoff/leaching of natural deposit
Magnesium	mg/L	NA	NA	[0.33]	10	6 - 14	8	8 - 9	7	ND - 16	15	5 - 28	21	15 - 27	
Potassium	mg/L	NA	NA	NA	1.8	ND - 3.3	2.5	NR	2.4	1.1 - 7.6	3.7	2.0 - 5.6	4.2	3.6 - 4.8	Salt present in the water; naturally occurring
Silica	mg/L	NA	NA	[5]	15	11 - 20	No Data	No Data	14	6 - 31	5	ND - 13	No Data	No Data	NA
Sodium	mg/L	NA	NA	NA	36	21 - 44	40	39 - 40	66	28 - 100	69	24 - 115	86	69 - 103	Salt present in the water; naturally occurring

Monitored in the Distribution System														
	Units of	MCL	PHG (MCLG)	DLR	Riversid	e ^(a)	Murri	eta ^(b)	Rainbo	Rainbow ^(c)	Primary Sources			
	Measure	[MRDL]	(MCLG) [MRDLG]	(RL)	Average	Range	Average	Range	Average	Range	Filliary 30dices			
Disinfection Byproducts					Highest LRAA or RAA		Highest LRAA or RAA		Highest LRAA or RAA					
Total Trihalomethanes (TTHMs)	μg/L	LRAA = 80	NA	1.0	55	4.1 - 84	17	1.1 - 35	23	14 - 38				
Haloacetic Acids (HAA5)	μg/L	LRAA = 60	NA	1.0	10	ND - 17	4.2	ND - 10	5.0	2.4 - 7.5	Byproduct of drinking water disinfection			
Bromate ^(h)	μg/L	RAA = 10	0.1	1.0	6.7	ND - 20	ND	ND - 2.6	ND	ND - 2.6				

	Monitored in the Distribution System													
	Units of	MCL	PHG	DLR	Riversi	de ^(a)	Murr	ieta ^(b)	Raint	ow ^(c)				
	Measure	[MRDL]	PHG (MCLG) [MRDLG]	(RL)	Average	Range	Average	Range	Average	Range	Primary Sources			
Microbiological					Highest %	2023 Total	Highest #	2023 Total	Highest #	2023 Total				
Total Coliform ⁽ⁱ⁾	Monthly Positive Samples	TT: 5% (>40 Samples) 2 (<40 Samples)	(O)	NA	1%	3	1%	1	0	0	Naturally present in the environment			
Disinfectant	Disinfectant													
Chloramines	mg/L	[4]	[4]	NA	1.28	0.00 - 3	1.36	0.012 - 3.6	1.72	0.58 - 2.8	Drinking water disinfectant added for treatment			
Physical Parameters														
Color	Color Units	15	NA	(3)	ND	ND - 10	ND	ND - 10	ND	NR	Naturally-occurring organic materials			
рН	pH units	NA	NA	NA	8.1	7.5 - 8.8	8.1	7.8 - 10.3	8.1	7.9 - 8.7	NA			
Turbidity ^(j)	NTU	5	NA	0.1	ND	ND - 2.4	0.15	ND - 0.6	ND	ND - 0.2	Soil runoff			
Unregulated Contaminant M	onitoring ^(k)													
Haleoacetic Acids (HAA5)	μg/L	NA	NA	NA	6.4	ND - 28	7.8	3.5 - 15	No Data	No Data				
Haleoacetic Acids (HAA6Br)	μg/L	NA	NA	NA	5.6	ND - 15	7.9	3.9 - 14	No Data	No Data	Byproduct of drinking water disinfection			
Haeloacetic Acids (HAA9)	μg/L	NA	NA	NA	9.7	ND - 30	13	5.9 - 26	No Data	No Data				



KIDNEY DIALYSIS / AQUARIUMS

Western Water uses chloramines to disinfect its drinking water. Customers who have unique water quality needs or use specialized home treatments, such as kidney dialysis machines, should make the necessary adjustments to remove chloramines. Like chlorine, chloramines are toxic to dialysis water. Customers who have fish tanks in their homes or businesses should also take precautions to remove chloramines prior to adding water to tanks. Effective treatments include using granular activated carbon filters or chemicals specifically designed to remove chloramines.

MEASUREMENT TERMS

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in safe 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. The standards listed in our water quality table are the most conservative set by the State. Individual measurements above a primary or secondary MCL listed in the table do not indicate an exceedance of the regulatory standard.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below for 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. Adding a disinfectant is necessary to control microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below for which there is no known or expected risk to health. MRDLGs do not reflect the benefits of using disinfectants to control microbial contaminants.

Notification Level (NL): Notification levels are health-based advisory levels established by DDW for chemicals in drinking water that lack MCLs.

Primary Drinking Water Standards (PDWS or Primary Standards): MCLs, MRDLs, and treatment techniques (TTs) for contaminants that affect health, along with their monitoring and reporting requirements and water treatment requirements.

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

Regulatory Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow.

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

ABBREVIATIONS

CCRDL Consumer Confidence Report Detection Level

DLR Detection Limits for Purposes of Reporting

HAA5 Sum of Five Regulated Haloacetic Acids (HAAs): Monochloroacetic Acid,

Monobromoacetic Acid, Dichloroacetic Acid, Dibromoacetic Acid, and

Trichloroacetic Acid

HAA6Br Sum of Bromochloroacetic Acid, Bromodichloroacetic Acid, Dibromoacetic

Acid, Dibromochloroacetic Acid, Monobromoacetic Acid, and Tribromoacetic

Acid

HAA9 Sum of Bromochloroacetic Acid, Bromodichloroacetic Acid,

Chlorodibromoacetic Acid, Dibromoacetic Acid, Dichloroacetic Acid, Monobromoacetic Acid. Monochloroacetic Acid. Tribromoacetic Acid. and

Trichloroacetic Acid

LRAA Locational Running Annual Average

MCL Maximum Contaminant Level

MCLG Maximum Contaminant Level Goal

MRDL Maximum Residual Disinfectant Level

MRDLG Maximum Residual Disinfectant Level Goal

NA Not Applicable

ND Not Detected at or above CCRDL, DLR, or RL

NL Notification Level

No Data No data for reporting year and/or previous 9 years.

NR No Range

PHG Public Health Goal

RAA Running Annual Average

RL Reporting Limit (Laboratory)

TT Treatment Technique

μg/L micrograms per liter

mg/L milligrams per liter

ng/L nanograms per liter

pCi/L picocuries per liter (a measure of radioactivity)

μS/cm microSiemen per centimeter

NTU Nephelometric Turbidity Units

FOOT NOTES

- (a) The Riverside service area benefits from multiple sources of groundwater, including the Arlington Basin (through Western Water's Arlington Desalter), the Bunker Hill Basin (provided by the City of Riverside), and the Chino Basin (supplied by the Chino Desalter Authority). These groundwater sources complement the imported surface water received from the Henry J. Mills Water Filtration Plant, operated by the Metropolitan Water District, that is sourced from the California State Water Project. To provide an accurate representation, the reported averages for the Riverside service area groundwater encompass the collective average of all groundwater sources distributed throughout the reporting year within the service area. Similarly, the reported ranges for the Riverside service area groundwater capture the entire spectrum of groundwater sample results obtained from the various sources within the service area.
- (b) The Murrieta service area benefits from multiple sources of groundwater, including the Temecula Valley Basin (through Western Water's groundwater wells) and the Elsinore Valley and San Jacinto Basins (provided by Eastern Municipal Water District). These groundwater sources complement the imported surface water received from the Robert F. Skinner Water Filtration Plant (operated by the Metropolitan Water District) and Hemet Water Filtration Plant and Perris Water Filtration Plant (operated by Eastern Municipal Water District). These surface water contributions are sourced from the California State Water Project and the Colorado River. To provide an accurate representation, the reported averages for the Murrieta service area encompass the collective average of all sources distributed throughout the reporting year within the service area for each respective source type (groundwater or surface water). Similarly, the reported ranges for the Murrieta service area capture the entire spectrum of sample results obtained from the various sources within the service area.
- (c) The Rainbow Service Area only receives imported water from Metropolitan Water District's Robert F. Skinner Water Filtration Plant, that is sourced from the California State Water Project and Colorado River.
- (d) The turbidity level in the combined filter effluent at Mills and Skinner Filtration plants must be less than or equal to 0.3 NTU in 95% of monthly measurements, with no readings exceeding 1 NTU. Similarly, the Hemet and Perris Water Filtration plants must maintain a turbidity level less than or equal 0.1 NTU in 95% of monthly measurements, with no readings exceeding 1 NTU.
- (e) Compliance with the State MCL is based on a RAA. The average value shown is the highest RAA calculated in 2023. For Rainbow Surface Water, the RAA includes samples taken in 2022 in the calculation, which is the reason it is outside of the range of values, which only represent samples collected in 2023.
- (f) The CCRDL is based on the United States Environmental Protection Agency (EPA) Fifth Unregulated Contaminant Monitoring Rule (UCMR5) minimum reporting levels (MRLs) for 25 EPA 533 constituents and lithium.
- (g) The average and range reported are based on only a single water source since only one water source was sampled for the reported constituent.
- (h) The average concentration provided is the highest RAA. The values reported are based solely on Metropolitian Water District's Mills and Skinner Water Treatment Plants.
- (i) Total coliform compliance is determined based on the total number of monthly samples collected. For a water system collecting at least 40 samples per month (Riverside system), the treatment technique (TT) trigger is set at 5% of monthly samples being positive. For a water system collecting fewer than 40 samples per month (Murrieta and Rainbow systems), the treatment technique (TT) trigger is set at two positive monthly samples.
- (j) Turbidity is a measure of the cloudiness of the water. High turbidity can hinder the effectiveness of disinfectants. We monitor it because it's a good indicator of water quality and the effectiveness of filtration systems, where used.
- (k) This data was from the Fourth Unregulated Contaminant Monitoring Rule (UCMR4) program that was conducted in 2018 through 2019.



2023 WATER QUALITY REPORT

VIEW THIS REPORT AT WESTERNWATERCA.GOV/WATERQUALITYREPORT

As required by the Environmental Protection Agency and State Water Resources Control Board Division of Drinking Water, Western Water is pleased to make this important report available to all customers.

Customers can request a printed copy of the report. Upon request, Western Water will mail a paper copy to you.

To request a printed copy of the report:

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