# City of Del Mar - 2022 Annual Drinking Water Quality Report

This report is a snapshot of the quality of the water the City of San Diego provided to the City of Del Mar during calendar year 2022. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies.

## Where does my water come from?

The City of Del Mar purchases untreated water from the San Diego County Water Authority (sdcwa.org), which purchases water from multiple sources<sup>(1)</sup>, including the Metropolitan Water District of Southern California (mwdh2o.com). The City of San Diego treats the water for the City of Del Mar at the Miramar Water Treatment Plant. The treated water is pumped to and stored in the City's four potable water reservoirs.

## Source Water

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 storm water 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 storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water 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.

To ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (EPA.gov) and the State Water Resources Control Board – <u>Division of Drinking</u> <u>Water</u> (SWRCB-<u>DDW</u>) at waterboards.ca.gov, specify regulations that limit the amount of certain contaminants in water provided by Public Water Systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

In 2022, as in past years, your tap water not only met, but parameters were less than all U.S. Environment Protection Agency and State of California regulatory limits for drinking water health standards.

### Lead and Copper

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.

## **Important Health Information**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (1-800-426-4791). During calendar year 2022, the water supply to each of the City's purveyor water treatment plants was monitored for Cryptosporidium and Giardia, and neither was detected.

## Lead and Copper (cont'd)

The City of Del Mar 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 two minutes before using water for drinking or cooking. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at https://www.epa.gov/lead or from the Safe Drinking Water Hotline at (1-800-426-4791).

Lead and copper enter drinking water primarily through plumbing materials. Exposure to lead and copper may cause health problems ranging from stomach distress to brain damage. In 1991, the EPA published the Lead and Copper Rule to control lead and copper in drinking water. The rule requires the City to monitor drinking water at customer taps. If lead concentrations exceed an Action Level (AL) of 15 ppb, or copper concentrations exceed an AL of 1.3 ppm in more than 10 percent of taps sampled, i.e. the 90th percentile, the City would be required to undertake a number of additional actions to inform the public and control corrosion.

In 2021, 20 customers (plus 'the Winston School') provided a total of 22 samples from their taps to the City of Del Mar for Lead and Copper analysis. The results of these tests are presented here, and in the tables, hereunder. Two (2) of the 20 sites had a result above the AL for Copper. Because less than 10 percent of our results were above the AL for Lead and Copper, no additional actions are required.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and/or flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the U.S. EPA Safe Drinking Water Hotline (1-800-426-4791).

Lead and Copper Rule monitoring must be conducted every three years - our next study will be conducted in June 2024.

Este informe contiene información muy importante sobre la calidad de su agua de beber. Favor de comunicarse City of Del Mar – Public Works, a (858) 755-3294, para asistirlo en español.

This report is also available online at City's website at: **http://www.delmar.ca.us/ccr2022** 

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## ENVIRONMENTAL MONITORING AND TECHNICAL SERVICES - CONSUMER CONFIDENCE REPORT DATA - 2022

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA United States Environmental Protection Agency's Safe Drinking Water Hotline at 800-426-4791. For a list of action levels visit the website of the SWRCB-DDW State Water Resources Control Board Division of Drinking Water at: http://www.waterboards.ca.gov

#### How to Read the Tables

The tables below list contaminants which: 1) SWRCB-DDW requires the City to monitor, and 2) SWRCB regulates with associated primary [health] or secondary [aesthetic], or no established standards. During 2022, these contaminants were detected at or above the SWRCB's Detection Limits for Purposes of Reporting during the reporting veer reporting year.

These tables summarize monitoring from 2022, with exceptions (see table footnotes). SWRCB mandates monitoring radioactive contaminants every three years. The lead and copper testing was conducted in June 2021, and is monitored every three years. The levels of these contaminants are not expected to vary significantly from year to year.

Definition of Terms

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

Location-based Running Annual Average (LRAA): The average of the most recent four quarters of monitoring performed at a distinct location in the distribution system. LRAAs are calculated guarterly using twelve

months of data and may include values obtained in previous Calendar Year 2021

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 MCI Gs as is economically or technologically feasible. Secondary MCLs are set to protect the odor, taste and appearance of drinking water

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs are set by the U.S. EPA

Maximum Residual Disinfectant Level (MRDL): The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a disinfectant added for water treatment below which there is no known or expected health risk. MRDLGs are set by the U.S. EPA.

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

Primary Drinking Water Standard (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring, reporting, and Abbreviations

A: Absent CA SMCL: California Secondary Maximum Contaminant Level SWRCB-DDW: California State Water Resources Control Board - Division of Drinking Water CSD MDL: City of San Diego Water Quality Laboratory Method Detection Limit: Lowest quantifable concentration of a measured analyte detectable by the laboratory. CII: Color Units DLR: Detection Limit for Reporting gr/Gal: Grains per Gallon ml. Milliliter MWD: Metropolitan Water District of Southern California N/A: Not Applicable ND: Not Detected (less than DLR, where applicable) NTU: Nephelometric Turbidity Units OU: Odor Units pCi/L: Picocuries per Liter (a measure of radiation) ppb: Parts per billion or micrograms per liter ( $\mu q/L$ ) – [1 ppb = 0.001 ppm] ppm: Parts per million or milligrams per liter (mg/L) - [1 ppm = 1,000 ppb] TT (Treatment Technique): a required process intended to reduce the level of a contaminant in drinking water

µS/CM: Micro-siemens/cm

	TABLE 1 – DETECTED REGULATED CCR CONTAMINANTS WITH PRIMARY MCLs											
PRIMARY STANDARDS (MANDATORY HEALTH RELATED STANDARDS)												
CHEMICAL PARAMETERS				DDW	W CITY OF SAN DIEGO - MIRAMAR TREATMENT PLANT							
	UNITS	MCL	PHG	DLR	AVERAGE	RANGE	MAJOR SOURCES IN DRINKING WATER					
Fluoride (naturally occurring)	ppm	2.0	1	0.1	0.3	0.2 - 0.4	Erosion of natural deposits					
Fluoride (treatment-related)*	ppm	2.0	1	0.1	0.6	0.3 - 0.8	Water additive that promotes strong teeth					
Barium	ppm	1.0	2	0.1	0.1	0.1 - 0.1	Erosion of natural deposits; discharges of oil drilling wastes					
*Note: Optimal Fluoride Level as estab	lished by US	5 Dept. of Hea	lth and Hu	man Servi	ces and State Wa	ter Resources Co	ntrol Board is 0.7 ppm.					

Primary Standards (Mandatory Health Related Standards	) - RADIOACTIVE CONTAMINANTS

Primary Standards (Mandatory Health Related Standards) - RADIOACTIVE CONTAININANTS											
		PHG	DDW		CITY OF SAN DIEGO - MIRAMAR TREATMENT PLANT^						
UNITS	MCL	(MCLG)	DLR	AVERAGE	RANGE	MAJOR SOURCES IN DRINKING WATER					
pCi/L	15	(0)	3	3	Single Sample	Erosion of natural deposits					
pCi/L	50*	(0)	4	5	Single Sample	Decay of natural and man-made deposits					
pCi/L	20	0.43	1	1	Single Sample	Erosion of natural deposits					
	UNITS pCi/L pCi/L	UNITS MCL pCi/L 15 pCi/L 50*	UNITS PHG (MCLG)   pCi/L 15 (0)   pCi/L 50* (0)	UNITS PHG MCL DDW (MCLG)   pCi/L 15 (0) 3   pCi/L 50* (0) 4	PHG (MCLG) DDW DLR AVERAGE   pCi/L 15 (0) 3 3   pCi/L 50* (0) 4 5	PHG DDW CITY OF S   UNITS MCL (MCLG) DLR AVERAGE RANGE   pCi/L 15 (0) 3 3 Single Sample   pCi/L 50* (0) 4 5 Single Sample					

\*The State Water Resources Control Board considers 50 pCi/L to be the level of concern for beta particles.

^Miramar Treatment Plant - Alpha and Beta data from 2020. Uranium data from 2017

	CITY OF DEL MAR - DISTRIBUTION SYSTEM AVERAGE											
MICROBIOLOGICAL		Systems that collect <40 samples/month No more than 1 positive monthly sample	No. of Months	PHG								
Contaminant	UNITS	Amount Detected	in Violation	(MCLG)	MAJOR SOURCES IN DRINKING WATER							
Total Coliform Bacteria	/100ml	Highest number of positives in any month	1^^	0	Naturally present in the environment							
Total Comorni Bacteria	/100111	0	1,	U								
Fecal Coliform and E. coli	/100ml	Total number of positives in the year	0	0	Human and animal fecal waste							
	/100111	0	U	U								

^^The State Water Resources Control Board issued City of Del Mar citation 05 14 22C 007 for the month of May 2022 because five bacteriological samples were collected when six sample tests for Coliform bacteria were required per month. Because all monitoring for coliform bacteria was not completed, the City cannot be sure of the quality of drinking water during that time. Regular monitoring was completed for all other months of Calendar Year 2022, and a total of 71 representative samples tested negative for presence of Coliform bacteria for the year. This means NO bacteriological contamination was found in the potable water samples of the City of Del Mar.

	LEAD AND COPPER RULE											
CITY OF DEL MAR - SAMPLES TAKEN AT THE TAP OF 20 DIFFERENT SAMPLE SITES + 2 extra independent sample at 'The Winston School' (all in JUNE 2021)												
LEAD AND COPPER STUDY		ACTION		DDW	90th PERCENTILE							
	UNITS	LEVEL	PHG	DLR	CONCENTRATION	Exceeding AL	MAJOR SOURCES IN DRINKING WATER					
Copper	ppm	1.300	0.3	0.05	0.569	2	Internal corrosion of household plumbing systems					
Lead	ppb	15	0.2	5	3.97	0	Internal corrosion of household plumbing systems					

Note: Monitoring mandated every three years. City of Del Mar most recent monitoring conducted in June 2021, from 20 water service connections (home addresses) Two (2) extra Lead and Copper test performed at the only school ('The Winston School') at 215 9th Street in the City of Del Mar. Results were also below Action Level (A.L.)

TAB	TABLE 2 DETECTED REGULATED CCR PARAMETERS WITH SECONDARY MCLs (AESTHETICS STANDARDS)											
		CA	CSD		MIRAMAR TREATMENT PLANT EFFLUENT CONCENTRATION							
	UNITS	SMCL	MDL (DLR)	AVERAGE	RANGE	MAJOR SOURCES IN DRINKING WATER						
Chloride	ppm	500	0.5	105	95.3 - 114	Runoff/leaching from natural deposits; seawater influence						
Color	CU	15	1	ND	ND - 1	Naturally occurring organic materials						
Specific Conductance	μS/cm	1600	N/A	920	758 - 1010	Substances that form ions when in water; seawater influence						
Sulfate	ppm	500	0.5	208	160 - 222	Runoff/leaching from natural deposits; industrial wastes						
Total Dissolved Solids	ppm	1000	(10)	600	507 - 633	Runoff/leaching from natural deposits						

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ENVIRONMENTAL MONITORING AND TECHNICAL SERVICES - CONSUMER CONFIDENCE REPORT DATA - 2022

TABLE 2 DETECTED REGULATED CCR PARAMETERS WITH SECONDARY MCLs (AESTHETICS STANDARDS) continued										
<b>Distribution System Results (Seconda</b>	SMCL	(MCLG)	CSD		CITY OF DEL MAR - DISTRIBUTION SYSTEM AVERAGE					
	UNITS [MRDL] [MRDLG] MDL/(DLR) AVERAGE RANGE** MAJOR SOURCES IN DRINKING WATER									
Color, Visual	Color Units	15		1	0.32	ND - 3	Naturally occuring organic materials.			
Odor	OU (Ton)	3		(1)	ND	ND - ND	Naturally occuring organic materials.			
Turbidity	NTU	5		0.1	0.08	ND - 0.20	Soil runoff			
TABLE 3 DETECTED UNREGULATED CCR PARAMETERS REQUIRING MONITORING										
	TAB	LE 3 DETE	CTED UNF	REGULATE	D CCR PARAME	TERS REQUIRIN	IG MONITORING			

TABLE 3 DETECTED UNREGULATED CCR PARAMETERS REQUIRING MONITORING											
		NOTIFICATION DDW MIRAMAR TREATMENT PLANT EFFLUENT CONCENTRATION									
	UNITS	LEVEL	DLR (PHG)	AVERAGE	RANGE	MAJOR SOURCES IN DRINKING WATER					
Boron	ppm	1	0.1	0.1	0.1 - 0.2						
Chromium, hexavalent (CrVI)	ppb	-	(0.02)*	0.05	Single Sample						

\* The DLR of 1 ppb and the MCL of 10 ppb for Chromium VI were repealed in 2017. The value listed here is the PHG for Chromium VI.

TABLE 4 – DETECTED DISINFECTION BY-PRODUCTS, DISINFECTANT RESIDUAL AND DISINFECTION BY-PRODUCT PRECURSORS											
Treatment Plant Effluent		MCL		DDW	DW MIRAMAR TREATMENT PLANT EFFLUENT CONCENTRATION						
	UNITS	[MRDL]	PHG	DLR	AVERAGE	RANGE	MAJOR SOURCES IN DRINKING WATER				
Chlorate	ppb	NL=800	PPB	20	N/A	N/A	By-product of drinking water disinfection				
Chlorite	ppm	1	0.05	0.02	N/A	N/A	By-product of drinking water disinfection				
Total Organic Carbon [TOC]	ppm	Π	N/A	0.3	2.5	2.2 - 2.8	Various natural and manmade sources				

TOC is a precursor for the formation of disinfection byproducts

Distribution System Results		MCL	PHG	CSD	CITY OF DEL MAR - DISTRIBUTION SYSTEM AVERAGE				
	UNITS	[MRDL]	[MRDLG]	DLR	AVERAGE	RANGE**	MAJOR SOURCES IN DRINKING WATER		
Disinfectant Residual	ppm	[4.0]^	[4]	0.1	2.04	0.22 – 2.97	Drinking water disinfectant added for treatment		
[Chloramines as Cl2]									
HaloAcetic Acids [HAA5]	ppb	60*	N/A		Max LRAA = 9	7.9 – 10.1	By-product of drinking water disinfection		
Total TriHaloMethanes [TTHMs]	ppb	80*	N/A		Max LRAA = 31	18.5 – 45.0	By-product of drinking water chlorination		

NOTES: \* Total Trihalomethane and HAA5 compliance is based on quarterly Locational Running Annual Average (LRAA)

\*\* Ranges and average are based upon individual 2021-Q4 and 2022 sample results.

^Compliance is determined by Distribution System Running Annual Average.

	TABL	E 5 – ADDITIC	ONAL COM	ISTITUEN	ITS - SODIUM, T	OTAL HARDNES	S, AND TURBIDITY			
			PHG	CSD		MIRAMAR TREATMENT PLANT EFFLUENT CONCENTRATION				
	UNITS	MCL	(MCLG)	MDL	AVERAGE	RANGE	MAJOR SOURCES IN DRINKING WATER			
Sodium	ppm	N/A	N/A	20	92.6	70.4 - 99.6	Naturally present in the environment			
Total Hardness	ppm	N/A	N/A	10	266	221 - 283	Naturally present in the environment			
Total Hardness	gr/Gal	N/A	N/A	0.6	15.5	12.9 - 16.5	Naturally present in the environment			
Alkalinity - Total as CaCO3	ppm	N/A	N/A	20	125	107 - 133				
рН	рН	N/A	N/A	N/A	8.17	7.26 - 8.70				
Turbidity	NTU	TT= 1 NTU	N/A		Max. Level found = 0.09		Soil runoff			
Turbidity	NTU	TT=95% of samples ≤ 0.3 NTU	N/A		100% of samples ≤ 0.3 NTU		Soil runoff			

	TABLE 6 – DETECTED UNREGULATED PARAMETERS REQUIRING MONITORING											
			UCMR4									
			MRL		MIRAMAR TREATMENT PLANT EFFLUENT CONCENTRATION							
UCMR4 PARAMETERS <sup>1</sup>	UNITS		(MDL)		AVERAGE	RANGE	MAJOR SOURCES IN DRINKING WATER					
Bromide*	ppm		(0.02)		0.06	0.04 - 0.11						
Manganese	ppb		0.4		0.9	0.6 - 1.2	Leaching from natural deposits					
Total Organic Carbon [TOC]*	ppm		(1)		2.7	2.6 - 2.9						

<sup>1</sup>Note: UCMR4 (Fourth Unregulated Contaminant Monitoring Rule) Public water systems (PWS) City of San Diego samples were collected in 2018. \* As measured in untreated plant influent

### SOURCE WATER ASSESSMENT:

<sup>(1)</sup> 2020 Watershed Sanitary Survey containing information about the City of San Diego's source water was completed March 1, 2021, and is available at: https://www.sandiego.gov/public-utilities/water-quality/watersheds/sanitary-survey (as: https://www.sandiego.gov/sites/default/files/2020\_wss\_final.pdf) The source water is vulnerable to potential sources of contamination, such as stormwater runoff, Sanitary Sewer Overflows (SSOs), (leaking) underground storage tanks. More specific information can be found in the City of San Diego 2020 Watershed Sanitary Survey, in: https://www.sandiego.gov/sites/default/files/2020\_wss\_final.pdf Chapter 4 - Potential Contaminant Sources within the Local Source Water System (pages 67-93)

Additional tables and information about the water quality can also viewed via https://www.sandiego.gov/public-utilities/water-quality/water-quality-reports

The public is invited to discuss water quality related items during the regularly scheduled City Council Meetings, held the first and third Mondays of the month from 4:30 PM at Civic Center, 1050 Camino del Mar, in Del Mar. Council meetings are occasionally held on the second Mondays and/or special meetings called. Viewing the Meeting and Access to Agenda Materials: Members of the public can watch the meeting live on the City's website at: http://delmar.12milesout.com/Video/Live and on Cable TV Spectrum Ch. 24, AT&T Ch. 99 starting at 4:30 PM. Agenda materials and communications from the public on agenda items, "Red Dots", are available on City's website at: http://www.delmar.ca.us/AgendaCenter



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