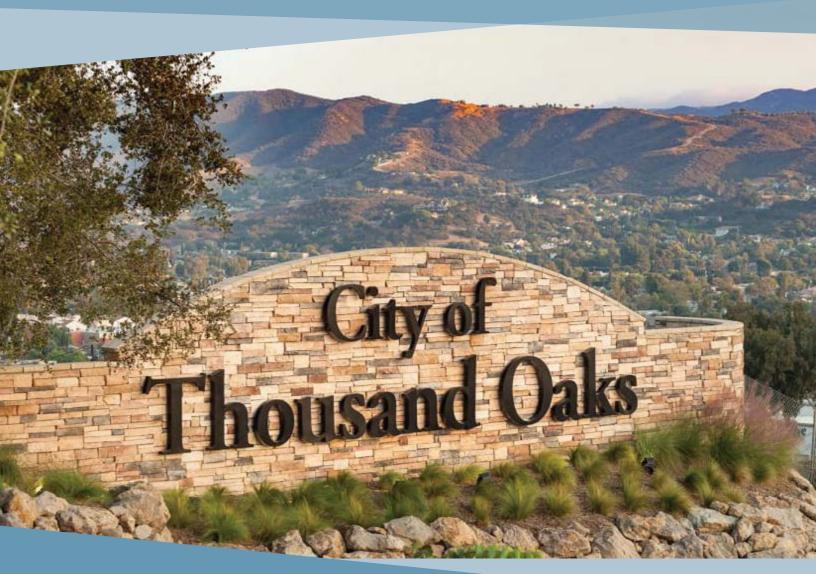
2022Annual Water Quality Report

(Reporting 2021 Data) PWSID # 5610020





OUR MISSION

The City of Thousand Oaks (City) Public Works Department distributes up to 15 million gallons of water each day to roughly 17,000 residences and businesses. Our mission is to provide high quality water that meets the stringent water quality standards established by the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (SWRCB). The Public Works Department is dedicated to providing you with a dependable supply of safe and high-quality water.

For additional information about your drinking water, contact the Water Quality Supervisor in the Public Works Department at 805-449-2499.

Este informe contiene información muy importante sobre su agua para beber. Tradúzcalo ó hable con alguien que lo entienda bien. Para mas informacion, puede llamar al 805-449-2499.

PUBLIC EDUCATION

The City is pleased to present to you this year's Annual Water Quality Report, which shows that the City's water supply met or exceeded all State and Federal standards in 2021. We are committed to providing you this information in the sincere belief that informed customers are our best partners. Included in this report are details about where your water comes from, what it contains and how it compares to State standards. The City works very hard with our neighbors, our partners and suppliers to continually improve the quality of the water supply, the protection of our water sources, the dependability of supply and the integrity of our storage and distribution system.







PUBLIC PARTICIPATION

The City drinking water system is managed as an enterprise fund by the elected City Council. Operations are conducted by the Public Works Department. The City Council meets on Tuesday evenings at 6 PM in the Scherr Forum Theater in the Civic Arts Plaza located at 2100 Thousand Oaks Blvd. For information about Council meeting schedules, please call 805-449-2151 or visit www.toaks.org.

OUR WATER SOURCE

85% of the City's water supply in 2021 was from the State Water Project. This surface water is imported from Northern California, which originates at Lake Oroville. The water then flows through the Sacramento River Delta system and is then transported via the California Aqueduct to Southern California. It is treated, filtered and disinfected at the Metropolitan Water District's (MWD) Jensen Filtration Plant in Granada Hills. 14% of the City's water supply in 2021 was from a blend of the Colorado River and State Water Project. It is treated, filtered and disinfected at the Metropolitan Water District's (MWD) Weymouth Filtration Plant in La Verne. Our supply is then piped directly to the City through the transmission facilities of the Calleguas Municipal Water District (Calleguas). Should this supply be interrupted by general maintenance, earthquake or other calamity, Calleguas can also deliver water to the City from their Lake Bard Water Filtration Facility and Reservoir located in the hills between Thousand Oaks and Simi Valley. For several weeks out of the year, the remaining 1% of the City's water supply in 2021 came from the Calleguas Lake Bard Water Filtration Facility and Reservoir.

PUBLIC HEALTH

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those with cancer who are 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 their drinking water from their health care providers. The USEPA and the Centers for Disease Control guidelines on appropriate means to lessen the risk from infection by Cryptosporidium and other microbial contaminants are available from the USEPA Safe Drinking Water Hotline (800-426-4791).

Fluoride - MWD initiated a Fluoride Optimization Program in November of 2007. Naturally occurring fluoride level ranges from 0.1 to 0.4 mg/L (parts per million). MWD has adjusted the level to the optimal range for dental health of 0.7 mg/L. If you or your children are taking Fluoride supplements, please consult with your dentist or dental healthcare provider for further direction.

Purity and Contaminants - Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health risks may also be obtained by calling the Safe Drinking Water Hotline (1-800-426-4791).

The sources of drinking water (both tap 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.

During the year, thousands of tests were conducted on our drinking water for over 150 drinking water constituents and contaminants to ensure the safety of your drinking water. **Prior** to filtration and treatment, contaminants that may be present in source water include:

Inorganic contaminants, such as salts and metals that can be naturally occurring or result from urban stormwater run-off, industrial or domestic wastewater discharges, oil and gas production, mining, or 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 gas stations, urban stormwater run-off, agricultural application and septic systems.

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

Radiological contaminants can be naturally occurring or the result of oil and gas production and mining activities.

Pesticides and Herbicides that may come from a variety of sources such as agriculture, urban stormwater run-off and residential uses.

Lead was not detected in the City's water supply. However, 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 private internal plumbing. The City does not use or install lead service lines and cannot control the variety of materials used in private plumbing components. If you are concerned about lead leaching out of your plumbing materials after your water has not been used for several hours, you can minimize the potential for lead exposure by flushing your tap for at least 30 seconds before using the water for drinking or cooking. Also, if you still have concerns about lead in your water due to internal plumbing materials you can hire a private laboratory to test your water for lead. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at http://www.epa.gov/safewater/lead.

MWD has conducted a source water assessment of its State Water Project supplies. State Water Project supplies are most vulnerable to urban/storm water runoff, wildlife, agriculture, recreation and wastewater. A copy of the assessment can be obtained by contacting MWD by phone at (213-217-6000).

In order to ensure that tap water is safe to drink, the SWRCB prescribes regulations that limit the number of certain contaminants in water provided by public water systems. The quality of our drinking water meets all State requirements for safe water.



WATER QUALITY DATA

The following table lists the drinking water contaminants that were detected in the City's drinking water during 2021. The presence of any of these contaminants in the water does not necessarily constitute a health risk. As you can determine from the results, the quality of the water delivered by the City consistently meets all State standards. The data presented in this table is from testing performed between January 1 and December 31, 2021, unless otherwise noted. State of California Standards are either equal to, or more stringent than Federal USEPA water quality standards. Therefore, Federal MCLs are not listed. Applicable Abbreviations, Definitions and Notes are identified at the conclusion of the Table.



					MWD Jensen	Weymouth	Calleguas	
		State	PHG	Range	Plant	Plant 14% of	LBWFP	Potential Major Sources if Detected in Drinking
Parameter	Units	MCL-MRDL	(MCLG)-MRDLG	Average	98% of Supply	Supply	1% of Supply	Water

PRIMARY DRINKING WATER STANDARDS (PDWS) - Mandatory Health-Related Standards

CLANII I [a]					
Combined Filter Effluent Turbidity	NTU	0.3	Highest Value	0.06	0.03

TT= % of samples ≤ 0.3 NTU [a] 100% 100% 100% 100% 100%

MICROBIOLOGICAL [b]

Total Coliform Bacteria Highest

(State Total Samples 5 % 0 Monthly 0% N/A N/A Coliform Rule) %

Effective July 1, 2021 Standards for Cryptosporidium, Giardia lamblia, Legionella, viruses and Heterotrophic Plate Count Bacteria are Treatment Techniques (TT) with which MWD and Calleguas comply. There were no detections of fecal coliform or E. Coli bacteria in the City's distribution system in 2021.

ORGANIC CHEMICALS



Pesticides/PCBs

27 chemicals were analyzed

None Were Detected



Average

Semi-Volatile Organic Compounds

6 Chemicals Were Analyzed

None Were Detected



0.03

Soil runoff

Volatile Organic Compounds

Naturally present in the environment

27 chemicals were analyzed (including MTBE, PCE and TCE)

None Were Detected

Erosion of natural deposits; discharge from oil & metal refineries

Parameter	Units	State MCL-MRDL	PHG . (MCLG)-MRDLG	Range Average	MWD Jensen Plant 85% of Supply	MWD Weymouth Plant 14% of Supply	Calleguas LBWFP 1% of Supply	Potential Major Sources if Detected in Drinking Water	
INORGANIC CHEMIC	CALS								
Aluminum	ppb	1000	600	Range	ND - 120	ND - 240	ND		
				Average	116	150	ND	Erosion of natural deposits; residue from water treatment process	
Arsenic	ppb	10	0.004	Range	ND	ND	4	Erosion of natural deposits; runoff from orchards; electronics	
				Average	ND	ND	4	production wastes	
Barium	ppm	1	2	Range	ND	0.11	ND	Erosion of natural deposits; discharge from oil & metal refineries	
				Average	ND	0.11	ND	Elosion of natural acposits, discharge norm on a metal remarks	
Copper [c]	ppm	AL=1.3	0.3	Range	0.00062 - 0.32	N/A	N/A	laterary at rewaction of household pinor; arotion of natural deposits	
				90th %	0.14	N/A	N/A	Internal corrosion of household pipes; erosion of natural deposits	
Fluoride [d]	ppm	2.0	1	Range	0.7 - 1.0	N/A	N/A	_ Erosion of natural deposits; water additive that promotes stron	
Treatment related				Highest RAA	0.7	N/A	N/A	teeth	
Lead [c]	ppb	AL=15	0.2	Range	ND - 5.5	N/A	N/A		
				90th %	2.3	N/A	N/A	Internal corrosion of household pipes; erosion of natural deposits	
Selenium	ppb	50	30	Range	ND	ND	13		

ND

13

ND

Daramatar	Unite	State	PHG (MCLG)-	Range	MWD Jensen Plant	MWD Wey- mouth Plant	Calleguas LBWFP	Potential Major Sources if Detected in		
Parameter [a] [analyzed of	Units	MCL-MRDL	MRDLG	Average	85% of Supply	14% of Supply	1% of Supply	Drinking Water		
RADIONUCLIDES [e] [analyzed of Gross Beta Particle Activity	pCi/L	50	(0)	Range	ND	4-6	ND	Decay of natural & man-made deposits		
Uranium	nCi/l	20	0.43	Average	ND - 3.0	5	ND 1.2	Fracian of natural denocits		
Oranium	pCi/L	20	0.43	Range Average	ND - 3.0	1.0 - 3.0 2.0	1.3 1.3	Erosion of natural deposits		
4 other radionuclides were analyz	zed - none v	vere detected		Avelage	ND	2.0	1.5			
DIGINEESTANT DESIDUALS / DI	CINEFCTION	L DV BB BB LLC								
DISINFECTANT RESIDUALS / DIS Bromate [f]	ppb	10	0.1	Range	1.2 - 9.8	ND - 7.0	ND			
Promute [1]	PPD	10	0.1	Highest RAA	4.5	ND	ND	By-product of drinking water ozonation		
Control of DBP Precursors as	ppm	TT		Range	1.1 - 2.0	1.8 - 2.5	TT	Various natural and man-made sources;		
Total Organic Carbon (TOC)				Highest RAA	2.0	2.4	TT	TOC as a medium for formation of DBPs		
		MRDL	MRDLG	System-wide	City of Thousand Oaks Results					
Total Chlorine Residual [g]	ppm	4	4	Range	1.30 - 2.00	N/A	N/A	Drinking water disinfectant added for		
				Highest RAA	1.80		N/A	treatment		
Haloacetic Acids [h] (HAA5)	ppb	60	N/A	Range	2.1 - 8.5	N/A	N/A	By-product of drinking water		
				Highest LRAA	6.4		N/A	disinfection		
Total Trihalomethanes [h]	ppb	80	N/A	Range	13 - 33	N/A	N/A	By-product of drinking water		
(TTHM)				Highest LRAA	23.0	N/A	N/A	disinfection		
SECONDARY DRINKING N	WATER ST	TANDARDS	(SDWS) -	Aesthetic Sta	ndards					
Aluminum [i]	ppb	200	600	Range	ND - 120	ND - 240	ND	Erosion of natural deposits; residue		
Aluminum [i]	ррь	200	000					from		
				Average	64	150	ND	water treatment processes		
Chloride	ppm	500	N/A	Range	65 - 80 72	95 - 97 96	97 97	Runoff/leaching from natural deposits; seawater influence		
Color	Units	15	N/A	Average Range	1 - 2	96 1	ND			
20101	Onics	15	1471	Average	2	1	ND	Naturally occurring organic materials		
Specific Conductance	μS/cm	1600	N/A	Range	519 - 598	962 -965	703	Substances that form ions when in water;		
Culfata		F00	NI/A	Average	558	964	703	seawater influence		
Sulfate	ppm	500	N/A	Range Average	61 - 72 66	217 -221 219	83 83	Runoff/leaching from natural deposits; industrial wastes		
Total Dissolved Solids	ppm	1000	N/A	Range	298 - 302	599 - 609	380	Runoff/leaching from natural		
				Average	300	604	380	deposits; seawater influence		
9 other metals and constituents were analyzed - none were detected										
ADDITIONAL PARAMETERS (Unregulated)										
Alkalinity	ppm	NS	NS	Range	86 - 97	123 -128	110			
,	P-P			Average	92	126	110			
Boron	ppm	NL=1	NS	Range	0.18	0.13	0.20			
Calaine		NC	NC	Average	0.18	0.13	0.20			
Calcium	ppm	NS	NS	Range Average	27 - 32 30	64 - 70 67	33 33			
Chlorate	ppb	NL = 800	NS	Range	88	55	ND			
				Average	88	55	ND			
Corrosivity [j]	Al	NS	NS	Range Average	12.2 12.2	12.4 - 12.5 12.4	12.1 12.1			
Hardness (Total Hardness)	ppm	NS	NS	Range	110 - 133	270 - 273	144	122 ppm = 7.13 grains per gallon (gpg)		
araness (Total Halulless)	phiii	113	143	Average	122	270 - 273	144	272 ppm = 15.9 grains per gallon (gpg)		
Magnesium	ppm	NS	NS	Range	12 - 13	25 - 26	15	2, 2 ppm — 13.2 grains per galion (gpg)		
	•			Average	12	26	15			
N-Nitrosodimethylamine	ppt	NL = 10	3	Range	2.6	ND	ND			
(NDMA)				Average	2.6	ND	ND			
рН	pH units	NS	NS	Range	8.3 - 8.4	8.1 - 8.2	8.1			
Potassium	nnm	NS	NS	Average	8.3 2.6 - 2.7	8.1 4.4 - 4.7	8.1			
Potassium	ppm	CVI	CVI	Range Average	2.6 - 2.7	4.4 - 4.7	3			
Sodium	ppm	NS	NS	Range	61 - 68	95 - 101	73			
				Average	64	98	73			
Total Organic Carbon	ppm	TT		Range	1.1 - 2.0 1.7	1.8 - 2.5 2.3	0.9			
4 other constituents and metals v	were analyze	ed including Ra	don - none we	Average ere detected	1./	2.3	0.9			
Perfluoroalkyl and Polyfluoroa	Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) List (Unregulated) [k]									
29 PFAS constituents were ana	29 PFAS constituents were analyzed - none were detected									

WATER QUALITY DATA Abbreviations, Definitions and Notes

AI = Aggressiveness Index.

AL = Federal Regulatory Action Level = The level of contaminant which when exceeded, triggers treatment or other requirements that a water system must follow.

DBP = Disinfection By-Product

LBWFP = Lake Bard Water Filtration Plant.

LRAA = Locational Running Annual Average

MCL = Maximum Contaminant Level = The highest level of contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

MCLG = Maximum Contaminant Level Goal = The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the US Environmental Protection Agency (EPA).

MRDL = Maximum Residual Disinfectant Level = The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of disinfectant is necessary for control of microbial contaminants.

MRDLG = Maximum Residual Disinfectant Level Goal = The level of 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.

MWD = Metropolitan Water District.

N/A = Not Applicable

ND = None Detected. Detection Limits for the purposes of reporting (DLRs) available on request.

NL = Notification Level

NS = No Standard

NTU = Nephelometric Turbidity Units.

pCi/L = Picocuries per liter (units to measure radiation).

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

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

ppb = parts per billion, or micrograms per Liter (μ g/L), equivalent to 1 drop of water in a standard swimming pool (13,208 gallons).

ppm = parts per million, or milligrams per liter (mg/L), equivalent to 1 drop of water in a aquarium (13.2 gallons).

ppt = parts per trillion, or nanograms per Liter (ng/L), equivalent to 1 drop of water in 20 olympic swimming pools (13,208,000 gallons).

RAA = Running Annual Average

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

TON = Threshold Odor Number

TT = Standards are Treatment Techniques for contaminants with which MWD and Calleguas are in compliance.

μS/cm = micro Siemen per Centimeter (to measure conductivity)

- [a] The turbidity level of the filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1.0 NTU at any time. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of the filtration system.
- [b] The City's water was in compliance with both the State Total Coliform Rule and the Federal Revised Total Coliform Rule. Over 1,000 samples were analyzed in 2020 for Total Coliform and E. Coli.
- [c] Lead and Copper are sampled at the customer's tap every (3) years. Last event was conducted in 2019 and scheduled to occur again in 2022. 36 samples were collected and the 90th percentile was reported above. No samples exceeded the AL for Lead and Copper.
- [d] MWD initiated a Fluoride Optimization Program in 2007. See text for further detail.
- [e] Results are from 2020, part of a 4-quarter radiological monitoring program. Water utilities are required to make these surveys every three years.
- [f] Compliance for treatment plants that use ozone is based on a running annual average of monthly samples, which was in compliance in 2021.
- [g] Total chlorine residual measures the concentration of chloromines (5 parts chlorine and 1 part ammonia) that are added as a disinfectant system-wide.
- [h] Compliance was based on the LRAA of data collected at distribution system-wide monitoring locations. The range of all samples collected is included.
- [i] Aluminum has both primary and secondary standards. Compliance with the MCL is based on a running annual average. The secondary standard MCL was not exceeded.
- [j] Al measures the aggressiveness of water transported through pipes. Al <10 is highly corrossive to water system materials. Al at 12 or above indicates non-aggressive water.
- [k] All PFAS monitoring results were below the DDW established Consumer Confidence Report Detection Limits. PFAS results below the laboratory minimum reporting level are reported as ND. Data is from voluntary monitoring of constituents by MWD and are provided for informational purposes.



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