

2022 Pismo Beach Water System Consumer Confidence Report

Pismo Beach Water Division (805)773-7054 www.pismobeach.org

Delivering Excellence

The City of Pismo Beach Water System met all Federal and State standards for drinking water during 2022.

Your 2022 Water Quality Report

The City of Pismo Beach is pleased to present this annual report describing the quality of your drinking water. Included are details about where your water comes from, what it contains, and how it compares to State standards. We sincerely hope this report gives you the information you seek and have a right to know.

WATER CONSERVATION REMINDER AVOID WASTEFUL USE: www.ThinkH20now.com

How Much Water Do We Use?

In 2022, the residents and visitors of Pismo Beach used approximately 1770 acre feet or 577 million gallons of 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 can pick up substances resulting from the presence of animals or human activity.

Where the Residents and Consumers of Pismo Beach get their water?

Surface Water

Lopez Lake – The City is entitled to receive 892 acre feet per year, approximately 291 million gallons of water.

State Water

The City is entitled to receive 1240 acre feet per year, approximately 456 million gallons of water.

Groundwater

Santa Maria Ground Water Basin – The City is entitled to extract 700 acre feet per year, approximately 228 million gallons of water.

EN ESPANOL

Este informe contiene informacion muy importante sober la calidad del agua que usted consume. Por favor de traducirlo, o hable con alguien que lo entiende bien.



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Contaminants that may potentially be present in untreated source water, surface water and well water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants such as salts and metals, which can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agricultural, urban storm runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which occur naturally or from oil and gas production and mining activities.

Other Health risks

While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health affects against the costs of removing arsenic from drinking water. The U.S. Environmental Protection Agency continues to research the health effect 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.

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Chlorate above the drinking water Notification Level

The County routinely monitors for the presence of chlorite and chlorate, disinfection by-products from the use of chlorine dioxide as a disinfectant in the water treatment process. Water sample results on 11 /14/22 showed chlorate levels as high as 0.99 mg/L in the water distribution system. This is above the notification level of 0.8 mg/L. Although this was not an emergency, as our customer, you have a right to know what happened and what we did to correct this situation.

What is a Notification Level?

The California State Water Resources Control Board - Division of Drinking Water establishes health-based advisory levels, called "notification levels", as needed. Notification levels are used to provide information to public water systems and others about certain non-regulated chemicals in drinking water that lack maximum contaminant levels (MCLs).

Monitoring for chemicals with notification levels is not required for Lopez Project. The County of San Luis Obispo monitors for chlorate because it is a disinfection byproduct formed resulting from the use of chlorine dioxide. Chlorine dioxide is used as a primary disinfectant at the Lopez Water Treatment Plant.

What should I do?

This was not an immediate risk. If it had been, you would have been notified immediately. The chlorate notification level was established in 2002. Chlorate is considered noncancerous but may contribute to pituitary or thyroid gland issues. This chemical may be given a maximum contaminant level at some time in the future once more information becomes available on the possible risk to human health. If you have other health concerns about the consumption of this water, you may wish to consult your doctor.

What happened? What was done?

The County of San Luis Obispo Department of Public Works changed disinfectants in the distribution system from chloramines to free chlorine on November 8th, 2022 in order to use a stronger disinfectant in the water mains for routine maintenance. This is considered a best management practice in the water industry. When adding extra sodium hypochlorite to water disinfected using chlorine dioxide, a reaction may occur which can shift the ratio of the disinfection byproduct from chlorite to chlorate. Additionally, concentrated chlorine solutions may contain or produce chlorate levels as the solution degrades in storage.

On November 29, 2022, the treatment plant returned to using a combined chlorine (chloramines) in the distribution system.

WATER CONSERVATION REMINDER

AVOID WASTEFUL USE

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Rebates Water Restrictions Conservation tips Resources



2022 Water Quality Data for Lopez Treatment Plant / State Water Project

Contaminants with a Primary Drinking V	Vater Standard								
Table 1 - Treatment of surface water source	s, combined filter Efflu	uent Turbidity							
Turbidity Performance Standard - Turbidity is a			monitor it becau	use it is a goo	od indicator of				
the effectiveness of the filtration system. Turbidity of combined filter effluent water must: 1. Lopez 0.15 & CCWA 0.3, less than or equal to in 95% of measurements in a month							ent Techniquet Alternative		Treatment Technique for Central Coast Water Authority (State Water) Conventional Treatment
 Not exceed 1.0 NTU for more than eight cons Lowest monthly percentage of samples that me 		100%		100%					
Turbidity (NTU) measurement during the year							0.08-0.09		0.05-0.15
The number of violations of any surface water tr	reatment requirement						0		0
			Dolivorod (I	opoz and					
Table 2 - Microbiological Contaminants			Delivered (Lopez and State Water)		CCWA	CCWA PPWTP		z WTP	
Contaminant (reporting units)	MCL	PHG(MCLG) or (MRDLG)	Range	Average	Range	Average	Range	Average	Potential Source of Contamination
Total Coliform Bacteria (MPN/100mL)	>5.0% of monthly samples are positive	0		ND	0	0.00%	—	ND	Naturally present in the environment
Heterotrophic plate count (CFU/mL)	TT = adequate disinfection < 500		ND-420	9.1	0-98	2	ND-150	3.3	Naturally present in the environment
Table 3 - Inorganic Contaminants									
Aluminum (ppm)	1 (b)	0.6	ND-0.064	0.027	ND-0.11	0.054	ND025	ND	Erosion of natural deposits; residue from some surface water treatment presses
Arsenic (ppb)	10	0.004	2.3-6.3	3.5	ND	ND	3.4-6.0	5.3	Erosion of natural deposits, runoff from orchards; glass and electronic production
Fluoride (ppm)	2.0	1.0		0.22	ND	ND		0.370	Erosion of natural deposits
Barium(ppm)	1	2		0.038	NS (I)	NS (I)		0.034	Discharge of oil drilling
Table 4 - Radioactive Contaminants									
Gross Alpha Particle Activity (pCi/L)	15	0	3.1-4.7	3.9	4.9	4.9	1.08-4.92	3	Decay of natural and man-made deposits
Table 5 - Disinfectant Byproducts, Disinfec	tant Residuals, and Di	sinfection Byprodu	ct Precursors						
			Delivered (Lopez and State Water)			PPWTP Lopez WTP			
Contaminant (reporting units)	MCL	PHG(MCLG) or (MRDLG)	Range	Average	Range	Average	Range	Average	Potential Source of Contamination
Chlorite (ppm)	1	0.05	ND-0.59	0.31			0.28-0.86	0.568	By-product of drinking water disinfection
Chlorate (ppm)	RAL = 800		120- <mark>920</mark>	296					By-product of drinking water disinfection
Chlorine Dioxide (ppb)	MRDL = 800 as Cl02	800	ND-110	ND			ND-390	136	Drinking water disinfectant added for treatment
Table ${f 6}$ - Regulated Contaminants with Sec	ondary MCL's							-	
Chloride (ppm)	500			56	74-145	104		40	Runoff/leaching from natural deposits
Color (CU)	15			2	ND	ND		1	Naturally occurring organic materials
Copper (ppm) Corrosivity (LI)	1.0 Noncorrosive			0.084	ND 12.2	ND 12.2		ND	Erosion of natural deposits Balance of hydrogen, carbon and oxygen in water
Geosmin (ppm)	NA	NA			ND-2	0.3			An organic compound mainly produced by bacterial
Odor - Threshold (TON)	3		ND-3.0	1.1	ND	ND	ND-3.0	1.3	growth in surface water Naturally occurring organic materials
Specific Conductance (uS/cm)	1600			810	585-937	701		890	Runoff/leaching from natural deposits
Sulfate (mg/L)	500			110	96	96		160	Runoff/leaching from natural deposits
Turbidity (NTU)	5 units			0.08	ND-0.25	6%		0.7	Soil Runoff
Total Dissolved Solids (ppm)	1000			610	380	380		480	Runoff/leaching from natural deposits
Table 7 - Contaminants with no MCL's									
Alkalinity as CaCO3 (ppm)	NA	NA		181	68-102	80		275	Runoff/leaching from natural deposits; seawater
Calcium (ppm)	NA	NA	61-100	74	29	29	91-100	97	Runoff/leaching from natural deposits; seawater influence
Hardness as CaCO3	NA	NA	280-470	340	104-158	127	410-470	438	Generally found in ground and surface water
Magnesium (ppm)	NA	NA	31-54	37	17	17	44-51	48	Runoff/leaching from natural deposits; seawater influence
рН	NA	NA		8.2	7.2-8.9	8.4		8.08	Runoff/leaching from natural deposits; seawater influence
Potassium (ppm)	NA	NA			3.6	3.6			Runoff/leaching from natural deposits; seawater influence
									Runoff/leaching from natural deposits; seawater
Sodium (ppm)	NA	NA		52	76	76		40	influence

2022 WATER QUALITY DATA FOR PISMO BEACH

Table #1 DISTRIBUTION SYSTE	M WATER SAME						CTERIA				
	Highest No. of	1									
Contaminants	Detections	No. of M	onths in Violation		MC	L		MCLG	Typical Source of Contaminant		
Total Coliform Bacteria	0	0 Mc			han 1 positive monthly sample			0	Naturally present in the environment		
Fecal Coliform Bacteria of E. Coli	0		0		e and a repeat sample are total Coliform I one is also fecal Coliform or E. Coli			0	Human and animal fecal waste		
Table #2 - 2020 HOME SAMPLI	NG RESULTS SH	HOWING 1	HE DETECTION	OF LEAD AND	COPPER	!					
Contaminants (CCR UNITS)	No. of Samples	Samples 90th Percentile Level Detected		No. of Sites Exceeding RAL	RAL	PHG	Typical Source of Contaminant				
Lead (ppb)	22		ND	0	15	0.2		rnal corrosion of household plumbing system; discharges from industrial manufacture ion of natural deposits			
Copper (ppm)	22		0.238	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching fro wood preservatives				
Table #3 - 2017 LEAD SAMPLIN	IG RESULTS FO	R SCHOO	DLS K-12 (2 SCH	OOLS TESTED)	-	-					
Contaminants (CCR UNITS)	No. of Samples	o. of Samples 90th Percentile Level Detected			RAL	PHG	Typical Source of Contaminant				
Lead (ppb)	10		3.5	0	15	0.2	Internal corrosion of household plumbing system; discharges from industrial manufacturers; erosion of natural deposits				
Table #4 - GROUND WATER SA											
		COULIS		WELL #23	MAN 15						
PRIMARY DRINKING WATER STA	1	MCLG	WELL #5	-							
PRIMARY CONTAMINANT	MCL	PHG	RANGE	RANGE	POTENTI	AL CONTA	INTAMINANTION SOURCE				
Arsenic (ppb)	10	0.004	4	3	Erosion of	of natural deposits					
Chromium (total) (ppb)	50	100 ug/l	20	ND	Erosion of	f natural de	natural deposits				
Nitrate (as N) (ppm)	10	10	ND	1.5	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits						
Nitrite (as N) (ppm)	1	1	ND	ND	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits						
Fluoride (ppm)	2	1	0.10	0.2	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum fac						
MTBE (ug/I)	13	13	ND	ND	gasoline additive methyl tertiary butyl ether						
Gross Alpha Particle Activity (pCi/I)	15	NA	6.63	10.1	Erosion of natural deposits						
Uranium (pCi/I)	20	0.43	2.15	4.38	Erosion of natural deposits						
SECONDARY DRINKING WATER	STANDARDS	•	WELL #5	WELL #23							
SECONDARY CONTAMINANT	MCL		RANGE	RANGE	E POTENTIAL CONTAMINANTION SOURCE						
Chloride (ppm)	500		84	45	Runoff; leaching from natural deposits; seawater						
Iron (ppb)	300		140	ND	Natural or industrial						
Manganese (ppb)	50		30	20	Natural or industrial						
Sulfate (as SO4) (ppm)	500		174	167	Runoff; leaching from natural from natural deposits; industrial						
Total Dissolved Solids (ppm)	1000		840	650	Soil runoff; leaching from natural deposits						
Zinc (ppb)	5000		50	ND	Improper waste disposal						
WITHOUT A DRINKING WATER S	TANDARDS		WELL #5	WELL #23							
CONTAMINANT	MCL		RANGE	RANGE	POTENTIAL CONTAMINANTION SOURCE						
Total Alkalinity as CaCO3 (ppm)	NA		440	390	Runoff; leaching from natural deposits; seawater						
Calcium (ppm)	NA		127	103	Runoff; leaching from natural deposits; seawater						
Sodium (ppm)	NA		57	50	Runoff; leaching from natural deposits; seawater						
Magnesium (ppm)	NA		52	47	Runoff; leaching from natural deposits; seawa			seawater			
ADDITIONAL ANALYSIS	1		WELL #5	WELL #23							
Aggressive Index	NA MOL 400		12.1	12.7		NA					
Specific Conductance (micromhos)	MCL=160	0	1290	1090			n ions when in wate				
Total Hardness (ppm) (as CaCO3)	NA		531	450 7.8		iound in gi	ound and surface	water			
pH (units)	NA MCL=5	NA 7.3(g)			NA Soil runoff: leaching from natural denseits						
Turbidity (NTU)***** ***** Turbidity is a measure of the cloud	-		0.3(g) tors this because it is	0.5		oil runoff, leaching from natural deposits ter quality. High turbidity can hinder the effectiveness of disinfectants.					
DISTRIBUTION SYSTEM	mess of the water. If	ory mom		a good muldator Of		.,. ingir tur	and y our minuel (i	is encouver			
	RODUCTS	MCI	MRDL	RANGE	1						
DISINFECTANT RESIDUAL AND BY-PRODUCTS MCL					By-product of drinking water chlorination			n			
Total Trihalomethanes (ppb) Total Haloacetic Acids (ppb)		80	NA	31-74							
Chlorine Residual		60 4.0	NA 4.0	24-39 1.1-2.18	By-produce Disinfecta		g water chlorinatio				
		4.0	7.0								
Table #5 - WELL SAMPLING RI	ESULTS SHOWIN	NG DETEC	TION OF UNRE	GULATED CHEN	AICALS						
UNREGULATED CHEMICALS	Avg. Level Detected	Range of	Detections Low- High	MCL	R	AL			Typical Source of Contaminants		
Boron (ppm)	0.2		ND21	NS	1	00	Naturally-occurring tetraborate	g; element f	ound in soil and water in the form of boric acid and sodium		

50

Naturally-occurring; has been found in association with hazardous waste sites

NS

Vanadium (ppb)

3

N/A

USEPA/CDC Provides guidelines on appropriate means to the risk of infection by Cryptosporidium	You can provide input regarding water quality
and other microbial contaminants, for information call - Safe Drinking Water Hotline (1-800-426-	decisions in your area.
4791).	The drinking water source assessment and protection program was completed in September
This hotline operates from 9 a.m. to 5 p.m. EST, Monday through Friday.	2002, both are on file at the Water Division.
For more information contact:	 The public can address concerns to the Public Works Water Division. Contact Brandon Shea at
 The Office of Ground Water and Drinking at EPA 	(805) 773-7054
 www.water.epa.gov/drink/index.cfm 	 The City Council meets the first and third Tuesday of each month at City Hall.
American Water Works Association http://www.awwa.org	• Este informe contiene informacion muy importante sobre la calidad del agua que usted consume. Por favor
 County Board of Supervisors http://slocounty.ca.gov/bos.html 	de traducirlo, o hable con alguien que lo entiende bien.

State and Lopez Water Footnotes:

(a) Distribution system samples. (b) Aluminum has a Secondary MCL of 0.2 ppm

(c) Compliance based on the running annual average of samples computed quarterly. (d) TOCs are taken at the treatment plant's combined filter effluent.

(e) The MRDL for chlorine is based on a running annual average of distribution system samples. (f) Increases in odor have been associated with algae blooms. During times of increased

algae blooms an odor in the algae is controlled with algaecides and the odor is reduced to acceptable levels by treating water with powder activated carbon.

(g) Laboratory sample	(h) Well #23 not in service for 2019 (I) not sampled in reporting year
Maximum Contaminant Level	The highest level of contaminant that is allowed in drinking water
(MCL)	
Regulatory Action Level (RAL)	The concentration of a contaminat that, if exceeded, triggers treatement or other requirements that a water system must follow
Maximum Contaminant Level	The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the United States Environmental Protection
Goal (MCLG and Public Health	Agency and PHGs are set by the California Environmental Protection Agency
Goal (PHG)	
Maximum Residual Disinfectant	The level of a disinfectant added for water treatment that may not be exceeded at the consumer's faucet
Level (MRDL)	
Maximum Residual Disinfectant Level Goal (MRDLG)	The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by the U.S. Environmental Protection Agency
Primary Drinking Water	MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements. Primary MCLs are set as close
Standards (PDWS)	to the PHGs (or MCLGs) as is economically and technologically feasible
Primary Drinking Water	MCLs for contaminants to protect the taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect health at the MCL levels
Standards (SDWS)	
Treatment Technique (TT)	A required process intended to reduce the level of a contaminant in drinking water
Regulatory Notification Level (NL)	The concentration of a contaminant that, if exceeded, triggers treatment of other requirement which a water system must follow
	An arithmetic average of all sample is computed quarterly. The quarterly average is then averaged against the previous three quarters worth of data to provide an
• • • •	annual running average. The highest running average over a twelve month period used for compliance
Not Collected (NC)	A sample was not collected for this contaminant
Not Reported (NR)	Contaminant was not reported
Not Standard (NS)	Contaminant for which there is no established MCL
Not Detected (ND)	Contaminant is not detectable at testing limit
Not Analyzed (NA)	Contaminant was not analyzed
WAIVED	On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment
pCi/L	PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)
ppm	PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)
ppb	PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)
uS/cm	MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)
cu	COLOR UNITS
NS	NO STANDARD
CFU/ml	COLONY FORMING UNITS PER MILLILITER
NTU	NEPHELOMETRIC TURBIDITY UNIT
TON	THRESHOLD ODOR NUMBER
USEPA	THRESHOLD ODOR NUMBER
USEPA CDC	THRESHOLD ODOR NUMBER UNITED STATES ENVIORNMENTAL PROTECTION AGENCY
USEPA CDC LI	THRESHOLD ODOR NUMBER UNITED STATES ENVIORNMENTAL PROTECTION AGENCY CENTER FOR DISEASE CONTROL HOTLINE (1-800-426-4791)
USEPA CDC LI LOPEZWTP	THRESHOLD ODOR NUMBER UNITED STATES ENVIORNMENTAL PROTECTION AGENCY CENTER FOR DISEASE CONTROL HOTLINE (1-800-426-4791) LANGELIER INDEX; NONCORROSIVE = ANY POSITIVE VALUE, CORROSIVE = ANY NEGATIVE VALUE
USEPA CDC LI LopezWTP CCWA	THRESHOLD ODOR NUMBER UNITED STATES ENVIORNMENTAL PROTECTION AGENCY CENTER FOR DISEASE CONTROL HOTLINE (1-800-426-4791) LANGELIER INDEX; NONCORROSIVE = ANY POSITIVE VALUE, CORROSIVE = ANY NEGATIVE VALUE LOPEZ WATER TREATMENT PLANT

In order to ensure that tap water is safe to drink, EPA, and the California State Water Reserouces Control Board, prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must 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 does not necessarily indicate that water poses a health risk.

More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's State Drinking Water Hotline (1-800-416-4791). Some people may be more vulnerable to contaminants in drinking water then the general population. Immune-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplant, people with HIV/AIDS or other immune system deficiencies, some elderly, and infants can be particularly at risk of infections. These people should seek advice about drinking water from their health care providers.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Pismo beach 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. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead drinking water testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov//lead.