ANNUAL WATER OUALITY REPORT

Reporting Year 2022 **Presented By** City of San Luis Obispo



Our Mission Continues

January 1 and December 31, 2022. Over the years, we have dedicated ourselves to producing drinking water that meets all state and federal standards. We continually strive to adopt new methods for delivering the best-quality drinking water to you. As new challenges to drinking water safety emerge, we remain vigilant in meeting the goals of source water protection, water conservation, and community education while continuing to serve the needs of all our water users. Please remember that we are always available should you ever have any questions or concerns about your water.

Lead in Home Plumbing

If present, elevated levels of lead can cause serious health I 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. We are responsible for providing highquality drinking water, but we 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. (If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants.) 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 (800) 426-4791 or at www.epa. gov/safewater/lead.

Source Water Assessment

Assessments of the drinking water sources for the City of San Luis Obispo have been conducted. These sources include Salinas Reservoir, Whale Rock Reservoir, and Nacimiento Lake. These sources are considered most vulnerable to the following activities not associated with any detected contaminants: grazing, managed forests, recreational areas, septic systems, sewer collection systems, and gas stations.

A copy of the complete assessment is available from the SWRCB Division of Drinking Water, 1180 Eugenia Place, Suite 200, Carpinteria, CA 93013, or the City of San Luis Obispo, 879 Morro Street, San Luis Obispo, CA 93401.

Where Does My Water Come From?

The City of San Luis Obispo is fortunate to have several sources of water. The Salinas Reservoir (also known as Santa Margarita Lake, eight miles east of Santa Margarita), Whale Rock Reservoir (Cayucos), and Nacimiento Lake (16 miles northwest of Paso Robles) are the main supplies. Surface water from the three lakes is treated at the Stenner Creek Water Treatment Plant. During 2022 the treatment plant delivered 1.76 billion gallons of water to San Luis Obispo.

Water Treatment Process

The treatment process consists of a series of steps referred to as conventional surface water treatment. First, raw water is drawn from our sources and sent to an ozone contact basin, which provides primary disinfection and oxidation of high iron levels. The water then goes to a mixing tank where aluminum sulfate and cationic polymer are added. The addition of these substances causes small particles (called floc) to adhere to one another, making them heavy enough to settle into a basin from which sediment is removed. At this point, the water is filtered through layers of fine coal and silicate sand. As smaller suspended particles are removed, turbidity disappears and clear water emerges.

Chlorine is added as a precaution against any bacteria that may still be present. We carefully monitor the amount of chlorine, adding the lowest quantity necessary to protect the safety of your water without compromising taste. Finally, fluoride (to prevent tooth decay) and a corrosion inhibitor (to protect distribution system pipes) are added before the water is pumped to sanitized underground reservoirs and water tanks and into your home or business.

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 may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC

(Centers for Disease Control and Prevention) 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 (800) 426-4791 or http://water.epa.gov/drink/hotline.



QUESTIONS? For more information about this report, or for any questions relating to your drinking water, please contact Jason Meeks, Water Treatment Plant Supervisor, at (805) 781-7566 or jmeeks@slocity.org.

Substances That Could Be in 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.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

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 can 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, which are by-products of industrial processes and petroleum production and which can also come from gas stations, urban stormwater runoff, agricultural applications, and septic systems;

Radioactive Contaminants that can be naturally occurring or can be the result of oil and gas production and mining activities.

More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

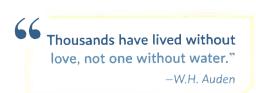
How Long Can I Store Drinking Water?

The disinfectant in drinking water will eventually dissipate even in a closed container. If that container housed bacteria prior to filling up with the tap water the bacteria may continue to grow once the disinfectant has dissipated. Some experts believe that water could be stored up to six months before needing to be replaced. Refrigeration will help slow the bacterial growth.



Public Meetings

City council meetings are held on the first and third Tuesday of each month at 6:00 p.m. at City Hall, 990 Palm Street, San Luis Obispo. A public comment period is held at the beginning of each meeting.



Test Results

ur water is monitored for many different kinds of substances on a very strict sampling schedule, and the water we deliver must meet specific health standards. Here, we only show those substances that were detected in our water (a complete list of all our analytical results is available upon request). Remember that detecting a substance does not mean the water is unsafe to drink; our goal is to keep all detects below their respective maximum allowed levels.

The state recommends monitoring for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

REGULATED SUBSTANCES	STANCES			ř						
SUBSTANCE (UNIT OF MEASURE)			G	YEAR	MCL	PHG (MCLG) [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Aluminum (ppm)				2022	1	9.0	0.07	ND-0.07	%	Brosion of natural deposits; residue from some surface water treatment processes
Chlorine (ppm)				2022	[4.0 (as Cl2)]	[4 (as Cl2)]	0.91	ND-2.2	°Z	Drinking water disinfectant added for treatment
Control of DBP Precursors [TOC] (% removal)	cursors [7	"OC] (%	.0	2022	TT^{i}	NA V	39	32-49	%	Various natural and human-made sources
Fluoride ² (ppm)				2022	2.0	(44 1)	0.7	0.5-0.9	^o Z	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha Particle Activity (pCi/L)	e Activity	(pCi/L)		2021	15	(0)	0.735	0.735-0.735	%	Erosion of natural deposits
HAA5 [sum of 5 haloacetic acids]-Stage 2 (ppb)	loacetic ac	ids]-Sta	ige 2	2022	₅ 09	NA	43	28–87	S _o	By-product of drinking water disinfection
Nitrate [as nitrate] (ppm)	(mdd)			2022	45	45	0.2	0.2-0.2	°Z	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
TTHMs [total trihalomethanes]-Stage 2 (ppb)	lomethan	es]-Stag	e 2	2022	80 ₃	NA V	45	32–66	Š	By-product of drinking water disinfection
Turbidity* (NTU)				2022	L	NA	0.19	0.05-0.19	No	Soil runoff
Turbidity (lowest monthly percent of samples meeting limit)	onthly per	cent of s	amples	2022	TT = 95% of samples meet the limit	NA V	100	NA	°N	Soil runoff
Tap water samples were collected for lead and copper analyses from sample situs throughout the community	collected for	r lead an	d copper ar	nalyses from	n sample sites throu	ighest the commu	nity			
SUBSTANCE (UNIT OF MEASURE)	YEAR	점	PHG (MCLG)	AMOUNT (90TH	AMOUNT DETECTED SITT (90TH %ILE) T	SITES ABOVE AL/ TOTAL SITES	VIOLATION	TYPICAL SOURCE		
Copper (ppm)	2022	1.3	0.3	0.	0.15	0/30	°N	Internal corrosion preservatives	on of hous	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (ppb)	2022	15	0.2	Z	ND	0/30	oN N	Internal corrosio natural deposits	n of house	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
SECONDARY SUBSTANCES	STANCE	10								
SUBSTANCE (UNIT OF MEASURE)		in a	YEAR	SWCL C	CL (MCLG)	AMOUNT	RANGE LOW-HIGH	VIOLATION		TYPICAL SOURCE
Aluminum (ppb)			2022	20	200 NS	0.07	ND-0.07	°Z	Erosi	Erosion of natural deposits; residual from some surface water treatment processes
Chloride (ppm)			2022	50	500 NS	15	15-15	°Z	Runc	Runoff/leaching from natural deposits; seawater influence
Manganese (ppb)			2022	5	50 NS	23	23-23	%	Leach	Leaching from natural deposits
Specific Conductance (µmho/cm)	oqumho	cm)	2022	1,6	NS 009'1	419	419-419	°N	Subst	Substances that form ions when in water; seawater influence
Sulfate (ppm)			2022	5(SN 009	68.8	68.8–68.8	No.	Runc	Runoff/leaching from natural deposits; industrial wastes

UNREGULATED SUBSTANCES 5	UBSTANCES	5		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN
SUBSTANCE (UNIT OF MEASURE)	YEAR	AMOUNT	RANGE LOW-HIGH	TYPICAL SOURCE
Hardness (ppm)	2022	164	144–280	The sum of polyvalent cations present in the water, generally magnesium and calcium, which are naturally occurring
Sodium (ppm)	2022	22	22-22	Naturally occurring

TOC has no health effects; however, it provides a medium for the formation of disinfection by-products such as TTHMs and HAA5. The city's TOC reduction requirement was 25% to 35% based on a running annual average calculated quarterly.

dose of 0.7 ppm. Our monitoring showed that the fluoride levels in the treated water ranged from 0.5 to 0.9 ppm, with an average of 0.7 ppm. Information about fluoridation, oral health, and current issues is available from http://www.swrcb.ca.gov/drinking_ State regulations require the fluoride levels in treated water be maintained within a range of 0.6 to 1.2 ppm, with an optimum Our system treats your water by adding fluoride to the naturally occurring level to help prevent dental caries in consumers. water/certlic/drinkingwater/Fluoridation.shtml.

Regulatory compliance is determined based on the locational running annual average. Additional sample results are included in this report, along with regulatory compliance results.

Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our

Unregulated contaminant monitoring helps U.S. EPA and the State Water Resources Control Board determine where certain filtration system.

contaminants occur and whether the contaminants need to be regulated.

Definitions

90th %ile: The levels reported for lead and copper represent the 90th percentile of the total number of sites tested. The 90th percentile is equal to or greater than 90% of our lead and copper detections.

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

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

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

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

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

NA: Not applicable.

ND (Not detected): Indicates that the substance was not found by laboratory analysis.

NS: No standard.

NTU (Nephelometric Turbidity Units): Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

pCi/L (picocuries per liter): A measure of radioactivity.

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

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

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

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

umho/cm (micromhos per centimeter): A unit expressing the amount of electrical conductivity of a solution.

µS/cm (microsiemens per centimeter): A unit expressing the amount of electrical conductivity of a solution.

APPENDIX G: CCR Certification Form (Suggested Format)

Consumer Confidence Report Certification Form

(to be submitted with a copy of the CCR)

(To certify electronic delivery of the CCR, use the certification form on the State Water Board's website at

http://www.swrcb.ca.gov/drinking_water/certlic/drinkingwater/CCR.shtml)

City of San Luis Obispo

Water S	ystem Number:	4010009		
The water system named above hereby certifies that its Consumer Confidence Report was distributed on 5/10/2023 to customers (and appropriate notices of availability have been given). Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the State Water Resources Control Board, Division of Drinking Water.				
Certified	by: Name:	Mike Merrill	. 0	
	Signature	101114		
	Title:	Water Treatmen	t Operator	
	Phone Number:	(805) 540-9915	Date:	5/17/2023
	.,		*	
below by	checking all item	very used and good-t s that apply and fill-in	where appropriate:	
		by mail or other direc d. Mailed 5/10/2023.	t delivery methods.	Specify other direct
	od faith" efforts wuded the followin	vere used to reach no g methods:	n-bill paying consu	mers. Those efforts
\boxtimes	Posting the CC	R on the Internet at:		
http	s://www.slocity.c	rg/government/depart	ment-directory/utiliti	es-
department/water-treatment/water-quality				
Mailing the CCR to postal patrons within the service area 93401 & 93405				
	Advertising the availability of the CCR in news media (attach copy of press release)			
		he CCR in a local ne- published notice, incl		· ·
	Posted the CCI	R in public places (atta	ach a list of location	s)
		tiple copies of CCR to as apartments, busine	_	sses serving several

Water System Name:

	Delivery to community organizations (attach a list of organizations)Other (attach a list of other methods used)
	For systems serving at least 100,000 persons: Posted CCR on a publicly-accessible internet site at the following address: www.
	For investor-owned utilities: Delivered the CCR to the California Public Utilities Commission
Th	is form is provided as a convenience for use to meet the certification requirement of