County of San Luis Obispo Department of Public Works County Government Center, Room 206 San Luis Obispo, CA 93408 www.slocounty.ca.gov/PW.htm



Nacimiento Reservoir at 41% capacity March 2021

Public Works will be a valued community partner enhancing quality of life for our fellow county residents.



Your 2020 Water Quality Report

The County of San Luis Obispo 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. *Este informe contiene informacíon muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.*

Your Water Supply

The raw water provided to your water agency comes from Nacimiento Reservoir located in northern San Luis Obispo County. The Nacimiento Reservoir watershed encompasses 208,060 acres (325 square miles). Nearly half of the watershed area, 104,480 acres, lies in Monterey County. The other half, 103,580 acres, lies in San Luis Obispo County.

Nacimiento Water Project consists of five agencies that use raw water from Nacimiento Reservoir: City of El Paso de Robles, Templeton Community Services District, Atascadero Mutual Water Company, City of San Luis Obispo, and Cayucos County Service Area 10 (under a water exchange agreement with

the City of San Luis Obispo for Whale Rock Reservoir water). A watershed sanitary survey was initially conducted in 2011. Updates were conducted in 2015 and 2020. The survey identifies potential contaminating activities in the watershed and assesses their impact on the raw and treated water quality. The greatest risks to the Nacimiento Reservoir as a drinking water supply come from extensive grazing, unlimited body contact recreation, numerous domestic wastewater facilities, and the potential for a large wildland fire. Urban development and agricultural cropland are increasing and may present future risks. Variable risk levels are presented by military activities and illicit commercial crops.



Nacimiento Reservoir at 86% capacity April 2019

A special contaminant of concern is mercury from

abandoned mercury mines in the watershed. Although mercury currently does not present a risk to the reservoir as a drinking water supply, its presence in the environment has led to its accumulation in fish in Nacimiento Reservoir at levels that are unsafe for human consumption. Public awareness of this issue can lead to concerns about the safety of the water supply.

Copies of the surveys can be found at the County of San Luis Obispo Department of Public Works website at:

https://www.slocounty.ca.gov/Departments/Public-Works/Forms-Documents/Water-Resources/Watershed-Sanitary-Surveys.aspx

Or by contacting the Publics Works Department at (805) 781-5252.



Additional information

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 by-products 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 U.S. Environmental Protection Agency (USEPA) 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. State 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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Drinking Water and Health Risks

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised 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. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Lead Health Risks In Drinking Water

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water typically comes from materials and components associated with service lines and home plumbing. The County of San Luis Obispo 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 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 <u>http://www.epa.gov/safewater/lead.</u>

Operations

Nacimiento Water Project is assigned three operators who, like all operators who work for the County, are certified by the California State Water Resources Control Board (SWRCB). Our operators are knowledgeable professionals who have many years of experience. They are dedicated to maintaining an excellent water system and providing you with the best quality water possible.

Operators conduct weekly inspections of the intake pump station, tanks and distribution system. In addition, the SWRCB routinely inspects the facilities, operating procedures, and water quality monitoring records to verify compliance with state and federal regulatory requirements.

Water Quality Laboratory

The Department of Public Works Water Quality Laboratory provides laboratory services for most County operated water and wastewater systems. The lab is certified by the State of California's Environmental Laboratory Accreditation Program (ELAP). To remain certified by the State, the lab is required to annually demonstrate capability by analyzing unknown values for each constituent. In addition to analytical work, the laboratory also provides sampling, compliance reporting, watershed monitoring, and technical support services for Public Works systems.

Community Participation

The County of San Luis Obispo Board of Supervisors meets every Tuesday (except the 5th Tuesday in a month) in the board chambers located in the County Government Center at 1055 Monterey Street, San Luis Obispo. The Board holds budget hearings during the month of June. Interested persons should check the Board's agendas for specific dates. Agendas for all Board of Supervisors meetings are posted in some County libraries, the County Government Center, and on the Board of Supervisors internet web site at https://www.slocounty.ca.gov/Departments/Administrative-Office/Board-of-Supervisors-Agenda.aspx.

Regular Nacimiento Commission meetings are held quarterly on the fourth Thursday of selected months at 4:00 p.m. at the Chambers of the Templeton CSD or another agreed-upon location.

Meeting logistics are subject to change. Please contact County Department of Public Works at (805) 781-5252 to confirmation of date, location and time, or visit the website at https://www.slocounty.ca.gov/Departments/Public-Works/Committees-Programs.aspx

NOTE: Both the Board of Supervisors meetings and the Nacimiento Commission meetings are currently being held remotely until further notice.



Water Quality

The following tables are a snapshot of water quality constituents that were detected in 2020, unless otherwise noted. The presence of these substances in water does not necessarily indicate that the water poses a health risk. The Maximum Contaminant Level and Violation status are for treated Drinking Water and are used here to aid in treatment decisions of the Nacimiento Project Raw Water. The State allows us to monitor for some constituents less than once per year because the concentrations do not change frequently. Some of our data, although representative, may be more than one year old. For questions about this data, please contact the County of San Luis Obispo Department of Public Works Water Quality Laboratory at (805) 781-5111.

State Regulated Contaminants with Primary Maximum Contaminant Levels										
Constituent (Units)	MCL or [MRDL]	PHG or (MCLG)	Range detected	Average detected	Violation	Potential Source of Contamination				
Long Term 2 Enhanced Surface Water Treatment Rule Monitoring										
E. <i>coli</i> (MPN/100 mL)	TT	(0)	ND - 34	3	No	Human and animal fecal waste				
Turbidity (NTU)	TT	TT	0.53 – 3.7	1.7	No	Soil runoff				
Inorganic										
Aluminum (mg/L)	1	0.6	ND – 0.055	0.033	No*	Erosion of natural deposits				
Arsenic (ug/L)	10	0.004	ND – 1.2	ND	No*	Erosion of natural deposits				
Barium (mg/L)	1	2	0.035 – 0.045	0.039	No*	Erosion of natural deposits				
Fluoride (mg/L)	2.0	1	ND – 0.19	ND	No*	Erosion of natural deposits				
Nickel (ug/L)	100	12	ND – 17	ND	No*	Erosion of natural deposits				
Radioactivity										
Gross Alpha Particle Activity (pCi/L)	15	(0)	2.22 - 2.65 (2019)	2.44 (2019)	No*	Erosion of natural deposits				
Gross Beta Particle Activity (pCi/L)	50	(0)	1.00 (2019)	1.00 (2019)	No*	Decay of natural and man-made deposits				
Disinfection Byproduct Precursors										
Dissolved Organic Carbon (mg/L)	TT	Π	3.7 – 4.2 (2019)	4.0 (2019)	No*	Various natural and manmade sources				
Total Organic Carbon (mg/L)	TT	Π	3.1 – 4.1	3.5	No*	Various natural and manmade sources				



State Regulated Contaminants with Secondary Maximum Contaminant Levels and Unregulated Contaminants								
Constituent (Units)	MCL	Range	Average	Violation		Potential Source of Contamination		
	secondary	detected	detected					
Aluminum (µg/L)	200	ND - 55	33	No*	Erosion	of natural deposits; residue from some surface water		
						reatment processes		
Chloride (mg/L)	500	5 – 8	6	No*	Runoff/le	ff/leaching from natural deposits		
Color, Apparent (CU)	15	4 - 13	8	No*	Naturally	aturally occurring organic materials		
Color, True (CU)	15	2 - 8	5	No*	Naturally	turally occurring organic materials		
lron (μg/L)	300	20 - 130	79	No*	Leaching	ng from natural deposits		
Lead (ug/L)	15	ND - 0.8	ND	No*	Erosion	of natural deposits		
Manganese (µg/L)	50	ND - 88	ND	No*	Leaching	ching from natural deposits		
Odor - Threshold (TON)	3	ND - 4.0	1.9	No*	Naturally	aturally occurring organic materials		
Specific Conductance (µS/cm)	1600	260 - 320	290	No*	Substan	nces that form ions when in water; seawater influence		
Sulfate (mg/L)	500	29 - 37	33	No*	Runoff/le	off/leaching from natural deposits; seawater influence		
Total Dissolved Solids (mg/L)	1000	100 - 190	180	No*	Runoff/le	Runoff/leaching from natural deposits; seawater influence		
Turbidity (NTU)	5	0.53 – 3.7	1.7	No*	Soil rund	Soil runoff		
		Caratara		Davage	A	Detential Course of Courterningtion		
Constituent (Units)	2 (Contaminant		Range	Average	Potential Source of Contamination		
Alkalinity as CaCC	-	Unregulated		91 - 132	106	Runoff/leaching from natural deposits		
		State Regulated RAL - 1000		46 - 54	50	Runoff/leaching from natural deposits		
	m (mg/L)	Unregulated		25 - 32	29	Runoff/leaching from natural deposits		
Hardness as CaCO3 (mg/L)		Unregulated		120 – 150	140	Generally found in ground and surface water		
Magnesiu		Unregulated		13 – 16	15	Runoff/leaching from natural deposits		
	рН	Unregulated		6.87 - 8.14	7.75	Runoff/leaching from natural deposits		
Sodiu	m (mg/L)	Unregulated		8.0 – 11	9.5	Runoff/leaching from natural deposits		
Total Coliform Bacteria (MPN	/100 mL)	Unregulated		11-24000	3200	Naturally present in the environment		

Some additional constituents monitored in 2020, but not detected above State reporting limits: arsenic, antimony, beryllium, cadmium, chromium, hexavalent chromium, cyanide, copper, lead, mercury, MBAS, ammonia, nitrate, nitrite, perchlorate, phosphorus, selenium, silver, thallium, zinc, and Title 22 volatile and synthetic organic chemicals.

No* The Maximum Contaminant Level and Violation status are for treated Drinking Water and are used here to aid in treatment decisions of the raw water from the Nacimiento Water Project.



KEY TERMS AND ABBREVIATIONS

CU – Color Units.

E. coli – Escherichia coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms.

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 are set to protect the odor, 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. Environmental Protection Agency.

mg/L - Milligrams per Liter.

MPN/100 mL - Most Probable Number per 100 milliliters

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.

ND – Not Detected. Contaminant is not detectable at testing limit.

NS – No Standard

NTU – Nephelometric Turbidity Unit. A measure of water clarity.

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

PDWS – Primary Drinking Water Standards. MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements. PDWS pertain to the following: Filtration Performance, Microbiological Contaminants, Inorganic Contaminants, Radioactive Contaminants and Disinfection Byproducts, Disinfection Residuals, and Disinfection Byproduct Precursors.

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 Environmental Protection Agency.

ppb – parts per billion, or micrograms per liter (µg/L).

ppm – parts per million, or milligrams per liter (mg/L).

Primary MCL – Maximum contaminant level for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible.

RAL – Regulatory Action Level. The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

Secondary MCLs – Maximum contaminant level for contaminants to protect the taste, odor, or appearance of the drinking water. Contaminants with secondary MCLs do not affect health at the MCL levels.

SWRCB – State Water Resources Control Board

TON – Threshold Odor Number.

TT – Treatment Technique. A required process intended to reduce the level of a contaminant in drinking water. For microbiological and turbidity contaminants, the raw water will be treated at a water treatment facility or used for groundwater recharge prior to use.

µS/cm – microsiemens per centimeter (unit of specific conductance of water).

µg/L – Micrograms per Liter.

USEPA – United States Environmental Protection Agency

Nacimiento Water Project News

Maintaining and Operating the Nacimiento Water Project Dam and Delivery System is an on-going process. Some of the projects addressed in 2020 were:

- Nacimiento Water Project SCADA system upgrade
- Completed permitting and construction of an equipment storage shed at the Santa Ysabel Pump Station site
- Installation of new valves along the pipeline to provide ability to isolate sections of pipeline and reduce overall water loss during planned maintenance and emergencies
- Completed leak repair sleeve project on Salinas River Crossing

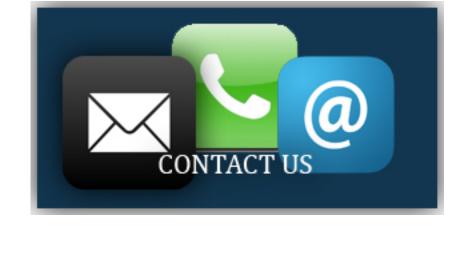
Projects planned in 2021 include:

• Increasing spare parts inventory to expedite repairs

The Nacimiento Reservoir began 2020 with an elevation of 762 feet above mean sea level and at 51.5% capacity (194,800 Acre-feet). The reservoir reached its highest level for 2020 on 4/10/2020 receiving only 4.4" of rain since January. This increased the elevation to 765.55' and 55.3% capacity (208,850 AF). With no additional rain, water levels continued to drop, reaching drought conditions (748' elevation; 38% capacity) on 7/25/2020. Only 0.35" more of rain was received in 2020. The reservoir remained under drought conditions throughout the remaining calendar year and reached its lowest capacity 12/30/2020 at 22.2% (726.70' Elevation; 84,080 AF).

The Nacimiento Water Project delivered 1,825 million gallons (5,602 acre-feet) of water to its participating agencies in 2020. This is approximately 4.99 million gallons per day.

Nacimiento Water Project 2020 Deliveries (Million Gallons)								
Month	Paso Robles	Templeton	Atascadero	San Luis Obispo	Total Deliveries			
	(T2)	(T4)	(T6)	(T11)				
January	0.00	0.00	0.00	0.00	0.00			
February	0.00	0.00	0.00	0.00	0.00			
March	0.00	0.00	0.00	0.00	0.00			
April	0.55	0.00	8.59	29.09	38.23			
Мау	39.58	0.00	0.00	68.41	107.99			
June	74.97	0.00	49.68	89.12	213.77			
July	121.92	0.00	120.23	116.10	358.25			
August	130.71	0.00	136.78	99.89	367.38			
September	132.69	0.00	130.19	106.50	369.38			
October	55.99	0.00	122.71	117.69	296.39			
November	23.53	0.00	4.38	45.96	73.87			
December	0.00	0.00	0.00	0.00	0.00			
Annual Total Flows	579.94	0.00	572.56	672.76	1,825.26			





Contact Information

Internet USEPA Office of Ground Water and Drinking Water <u>http://water.epa.gov/drink/index.cfm</u>

California State Water Resources Control Board (SWRCB) http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/publicwatersystems.shtml

> County of San Luis Obispo Department of Public Works <u>www.slocounty.ca.gov/PW.htm</u>

County of San Luis Obispo Water Quality Laboratory

805-781-5111 PW.WQL@co.slo.ca.us

http://slocountywater.org/WQL/wql.html

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