

WATER QUALITY REPORT 2025

County Service Area 16 - SHANDON
System Number CA4010028

Your 2025 Water Quality Report

The County of San Luis Obispo is pleased to present this 2025 annual report describing the quality of your drinking water. Details about where your water comes from, what it contains, and how it compares to State standards are included. Our dedicated staff works hard daily to maintain your water system and deliver the best quality water to you and your family. We sincerely hope this report gives you the information you seek and have a right to know.

Este informe contiene información muy importante sobre su agua para beber. Para comunicarse con la Área de Servicio del Condado 16 - Shandon Departamento de Obras Publicas llame (805) 781-1455 para asistirle en español.

Your Water Supply

Source water for Shandon comes from two groundwater wells located in Shandon which tap into the Paso Robles Groundwater Basin. Your water is normally very clean and is simply disinfected with chlorine to help minimize the potential for viral and bacterial contamination. A portion of your water may come from the Central Coast Water Authority (CCWA) Polonio Pass Water Treatment Plant (WTP). Source water for the Polonio Pass plant comes from the California State Water Project operated by the California Department of Water Resources. Water is conveyed to the Polonio Pass WTP by the Coastal Branch Aqueduct completed in 1997. Additional information on the State Water Project can be found at: <https://www.water.ca.gov/Programs/State-Water-Project>. **In 2025, the Shandon groundwater wells were the primary source of water. No water was used from CCWA.**

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 land's surface 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 human activity.

Contaminants that may be present in source water include:

- **Microbial contaminants**, such as viruses and bacteria, 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, are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural applications, and septic systems.
- **Radioactive contaminants**, that can be naturally occurring or be the result of oil and gas production and mining activities.
- **Turbidity** is a measure of the cloudiness of water. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfection.



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The following tables are a snapshot of drinking water constituents that were detected in your water in 2025, unless otherwise noted. The State allows us to monitor some substances 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. The presence of these substances detected in water does not necessarily indicate that the water poses a health risk. For questions about this data, please contact the **Water Quality Division at (805) 781-5111**.

REGULATED CONTAMINANTS WITH PRIMARY DRINKING WATER STANDARDS									
Constituent (Units)	MCL	PHG (MCLG)	Wells		Distribution (Treated)		Typical Source of Contaminant		
			Average	Range of Detections	Average	Range of Detections			
Microbiological									
Total Coliform (MPN/100 mL)	>1 positive per month	(0)	ND	ND - 5.2 ¹	Absent	Absent	Naturally present in the environment		
E. coli Coliform (MPN/100 mL)	0	(0)	ND	ND	Absent	Absent	Human and animal fecal waste		
Heterotrophic Bacteria (CFU/mL)	500	NA	4.9	ND - 100	2.4	ND - 33	Naturally present in the environment		
Radioactive									
Gross Alpha Particle (pCi/L)	15	(0)	5.3	5.2 - 5.3 (2020)	-----	-----	Decay of natural and man-made deposits		
Total Radium (pCi/L)	5	(0)	0.036	0.018 - 0.055 (2020)	-----	-----	Erosion of natural deposits		
Uranium (pCi/L)	20	0.43	2.22	2.19 - 2.25 (2020)	-----	-----	Erosion of natural deposits		
Inorganics									
Arsenic (µg/L)	10	0.004	2.0	1.9 - 2.0	-----	-----	Erosion of natural deposits		
Barium (mg/L)	1	2	0.113	0.104 - 0.122	-----	-----	Erosion of natural deposits		
Nitrate as Nitrogen (mg/L)	10	10	3.5	2.3 - 4.7	-----	-----	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits		
Perchlorate (µg/L)	6	1	ND	ND - 0.54	-----	-----	Historic aerospace or other industrial operations		
Selenium (µg/L)	50	30	ND	ND - 2.5	-----	-----	Erosion of natural deposits		
Distribution System Disinfectant Residuals and Disinfection Byproducts									
Free Chlorine Residual (mg/L)	4.0	4.0	1.45 (Treated)	1.13 - 1.72 (Treated)	1.35	0.86 - 2.62	Drinking water disinfectant added for treatment		
Total Trihalomethanes (µg/L)	80	NA	-----	-----	1.2	1.2	Byproduct of drinking water disinfection		

REGULATED CONTAMINANTS WITH SECONDARY DRINKING WATER STANDARDS

¹ Well was recollected the following day and the result was < 1 MPN/100 mL



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Constituent (Units)	Secondary MCL	Wells		Distribution (Treated)		Typical Source of Contaminant
		Average	Range of Detections	Average	Range of Detections	
Chloride (mg/L)	500	128	95.7 – 161	-----	-----	Runoff/leaching from natural deposits
Color, Apparent (CU)	15	1	1	-----	-----	Naturally occurring organic materials
Odor - Threshold (TON)	3	ND	ND – 1	ND	ND – 2	Naturally occurring organic materials
Specific Conductance (µS/cm)	1600	875	750 – 1000	-----	-----	Substances that form ions when in water
Sulfate (mg/L)	500	133	96 – 170	-----	-----	Runoff/leaching from natural deposits
Total Dissolved Solids (mg/L)	1000	605	480 - 730	-----	-----	Runoff/leaching from natural deposits
Turbidity (NTU)	5	0.33	0.07 – 5.2 ²	0.15	0.06 – 0.99	Soil runoff
CONTAMINANTS WITH NO MCL						
Alkalinity as CaCO3 (mg/L)	Unregulated	97	89 – 105	-----	-----	Runoff/leaching from natural deposits
Calcium (mg/L)	Unregulated	108	89.2 – 127	-----	-----	Runoff/leaching from natural deposits
Hardness as CaCO3 (mg/L)	Unregulated	302	248 - 355	-----	-----	Generally found in ground and surface water
Magnesium (mg/L)	Unregulated	7.72	6.13 – 9.30	-----	-----	Runoff/leaching from natural deposits
pH	Unregulated	7.87	7.60 – 8.01	-----	-----	Runoff/leaching from natural deposits
Potassium (mg/L)	Unregulated	4.36	3.98 – 4.73	-----	-----	Runoff/leaching from natural deposits
Sodium (mg/L)	Unregulated	59.2	50.7 – 67.6	-----	-----	Runoff/leaching from natural deposits
CONTAMINANTS WITH NOTIFICATION LEVELS						
Constituent (Units)	Notification Level	Average	Range of Detections	Health Effects		
Boron (mg/L)	1	0.138	0.114 - 0.163	Exposures resulted in decreased fetal weight (developmental effects) in newborn rats.		
PFOS (ng/L)	6.5	ND	ND – 2.5	Exposures resulted in immune suppression and cancer in laboratory animals.		

Lead and Copper Monitoring at the Consumers' Tap - Distribution (Collected in 2023)

Constituent (unit)	Number of Samples	90th percentile	Action Level	PHG	Potential Source of Contamination
Lead (ppb)	10	ND	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	10	0.096	1.3	0.3	

Constituents monitored in 2025 and not detected above State reporting limits include the following: 1,2,3-Trichloropropane, aluminum, antimony, beryllium, cadmium, chromium, hexavalent chromium, copper, cyanide, fluoride, haloacetic acids, iron, lead, manganese, MBAS, mercury, nickel, nitrite, silver, thallium, and zinc. Additional constituents monitored and not detected above State reporting limits: atrazine and simazine (2018), MTBE and synthetic organic chemicals (2020).

² Turbidity was measured in the field the following day; the result was 0.15 NTU



Important Health Information

To ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (SWRCB) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations and California law 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)**.

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 (Human Immunodeficiency Virus/Acquired Immunodeficiency Syndrome) 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 healthcare providers. USEPA/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the USEPA Safe Drinking Water Hotline (1-800-426-4791).

Nitrate Health Risks in Drinking Water

Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider. In 2025, Shandon well water nitrate levels ranged from 2.3 – 4.7 mg/L.

Lead Health Risks in Drinking Water

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 County of San Luis Obispo is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact the County of San Luis Obispo Water Quality Division(805-781-5111). Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.

Lead Service Line Inventory Requirement

The Lead and Copper Rule Revisions mandates that water systems conduct a comprehensive record review to identify service line materials. This inventory helps ensure accurate documentation and assessment of potential lead exposure risks.

Initial Lead Inventory Completion

As of October 2024, all water systems have completed their initial lead service line inventories. For more details and access to inventories, contact your local water utility.

PFAS National Primary Drinking Water Regulation

Per- and Polyfluoroalkyl Substances (PFAS) are a series of man-made chemical compounds that persist in the environment for long periods. They are often called "forever chemicals." For decades PFAS chemicals have been used in industry and consumer products such as nonstick cookware, waterproof clothing, fire fighting foam at airports, and stain-resistant materials. The latest science shows that these chemicals are harmful to our health.



On April 10, 2024, the USEPA finalized national drinking water standards for five individual PFAS: PFOA, PFOS, PFNA, PFHxS, and HFPO-DA (known as GenX Chemicals) and a Hazard Index level for two or more of four PFAS as a mixture: PFNA, PFHxS, HFPO-DA, and PFBS. These are legally enforceable drinking water limits and reduce PFAS exposure for approximately 100 million Americans served by public drinking water systems.

In 2023, the Shandon water system tested its drinking water wells for PFAS. Very low levels of PFOS were detected in one of Shandon’s drinking water wells, but were below the new Federal maximum contaminant level (MCL). Additional information for PFAS may be found at the following links: <https://www.epa.gov/pfas> and <https://www.slocounty.ca.gov/pfas>

Cross Connection

A cross-connection is any actual or potential connection between a potable (drinking) water supply and a non-potable source that could allow contaminants to enter the drinking water system. Common household hazards include garden hoses submerged in pools, irrigation systems, and improperly installed plumbing fixtures. Everyone plays a role in maintaining safe drinking water. Be aware of potential cross-connections in your home and take preventive measures to protect your family and community. For more information, contact your local water utility or visit <https://www.slocounty.ca.gov/departments/health-agency/public-health/environmental-health-services/cross-connection-control-program>.



We need your help!
Please scan the QR to take a Cross Connection Survey

Operations

Shandon operators are certified by the California SWRCB. Our operators are knowledgeable professionals dedicated to maintaining an excellent water system and delivering the best quality water possible. Operators conduct weekly inspections of the wells, 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.

Community Participation

The County of San Luis Obispo Board of Supervisors meets two to three times a month. All meetings are held in the Board Chambers located in the new County Government Center, 1055 Monterey Street, San Luis Obispo. The Board holds budget hearings during June. Interested people 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 website at <https://www.slocounty.ca.gov/Departments/Administrative-Office/Board-of-Supervisors-Agenda.aspx>. Information specific to the CSA 16 water system can be found at www.slocounty.ca.gov/pw/csa16

The **Shandon Advisory Council** is scheduled to hold regular meetings on the 1st Wednesday of every month starting at 7 pm at the Club House at Crawford W. Clarke Memorial Park, Shandon, CA. You can contact the advisory council by **email:** info@ShandonCA.org. or at P.O. Box 92, Shandon, 93461. Advisory council recommendations are considered by the Board of Supervisors when they make decisions that affect Shandon, including the water system.

Source Water Assessments were completed for both of Shandon’s wells in 2002. The wells were most vulnerable to the following activities: animal grazing, utility stations, septic systems, parks, fire station, historic gas station, fertilizer/pesticide/herbicide applications, underground storage tank, and above ground storage tank. A copy of the assessment is available from the SWRCB at (805) 566-1326 or from the County of San Luis Obispo Department of Public Works at: <https://www.slocounty.ca.gov/Departments/Public-Works/Forms-Documents/Water-Resources/Drinking-Water-Source-Assessments/Shandon-DWSAP.pdf>



KEY TERMS AND ABBREVIATIONS

CaCO₃ – Calcium carbonate
CCWA– Central Coast Water Authority
DLR – Detection Level for purposes of Reporting
ELAP – Environmental Laboratory Accreditation Program
Hazard Index (HI) - The Hazard Index is a long-established approach that the EPA regularly uses to understand health risks from a chemical mixture (i.e., exposure to multiple chemicals). The HI is made up of a sum of fractions. Each fraction compares the level of each PFAS measured in the water to the health-based water concentration.
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.
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.
µg/L – Micrograms per Liter.
MPN/100 mL – Most Probable Number per 100 milliliters
MRDL – Maximum Residual Disinfectant Level. The highest level of disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for the 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.
µS/cm – microsiemens per centimeter (unit of specific conductance of water).
NA – Not Applicable
ND – Not Detected. The contaminant is not detectable at the 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 pertains 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).
ppt - parts per trillion, or nanograms per

liter (ng/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.
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.
State Water – The California State Water Project’s raw source water is treated by the Central Coast Water Authority (CCWA) Polonio Pass Water Treatment Plant. The CCWA treated water (State Water) is purchased by the County of San Luis Obispo to be blended with Shandon’s treated well water for delivery to CSA16.
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 before use.
USEPA – United States Environmental Protection Agency
WTP – Water Treatment Plant

CONTACT INFORMATION

USEPA Office of Ground Water and Drinking Water

<http://water.epa.gov/drink/index.cfm>

California State Water Resources Control Board (SWRCB)

http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/publicwatersystems.shtml

County of San Luis Obispo Water Quality Division

Department of Public Works County Government Center, Room 206, San Luis Obispo, CA 93408

<https://www.slocounty.ca.gov/departments/public-works/our-divisions/water-quality>

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