



June, 2024

2023 WATER QUALITY REPORT

To our customers

The City of Arroyo Grande is pleased to present this annual report describing the quality of your drinking water. We sincerely hope this report provides you with a basic understanding of the City's water quality.

2023 Water Statistics

- **Surface Water Provided**
608 Million Gallons
- **Groundwater Pumped**
22 Million Gallons
- **Total Water Delivered**
630 Million Gallons
- **Ave. Daily Demand 1.7 Million Gallons**

Important Information About Your Drinking Water

The City of Arroyo Grande has both surface and groundwater sources of water. The surface water comes from the treatment plant at Lopez Lake. In 2023, Lopez provided 96% of the City's total supply. The City receives a blend of treated Lopez Water and treated State Water since both are delivered in the same distribution pipeline. The City, however, is not a participant in the State Water Project. The groundwater comes from City wells. The blend of surface and groundwater has an average hardness of 17 grains per gallon. Nitrate as N in drinking water at levels above 10 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, potentially resulting in serious illness; symptoms may include shortness of breath and blueness of the skin. Nitrate as N levels above 10 may also affect the ability of the blood to carry oxygen in other individuals such as pregnant women and those with specific enzyme deficiencies. If you are caring for an infant or you are pregnant, you should ask advice from your health care provider. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. One

well exceeds the maximum contaminant level for manganese. **This is reduced to acceptable levels by filtration prior to distribution.** 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 Arroyo Grande 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 or at <http://www.epa.gov/safewater/lead>. The city will continue in its efforts to meet or exceed all State and Federal Water Quality requirements.

Where is the water tested?

Both surface and groundwater supplies are tested independently by certified commercial laboratories. The labs are certified by the State Water Resources Control Board as environmental testing laboratories for bacteriological and chemical analyses. Federal and State requirements dictate that all regulatory analyses be performed by certified labs following approved procedures.

Where can the community participate in decisions regarding water quality?

The public can participate in the County Flood Control District, Zone 3 Advisory Group Committee concerning surface water received from the Lopez Treatment Plant. This group is composed of representatives from the Five-Cities area. The group meets on the 3rd Thursday of January, March, May, July, September, and November. Information on meeting times and places is available at slocountywater.org or can be obtained from the City of Arroyo Grande Public Works Department. Groundwater questions can be directed to the Utilities Division of the Public Works Department at 473-5464.

For additional information concerning the Annual Water Quality Report and results of UCMR monitoring, please call Shane Taylor, Utilities Manager, at 473-5464.

Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien.

TERMS USED IN THIS REPORT:

Maximum Contaminant Level Goal (MCLG) and Public Health Goal (PHG) – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the Federal Environmental Protection Agency and PHGs are set by the California Environmental Protection Agency.

Maximum Contaminant Level (MCL) – The highest level of a contaminant 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.

Maximum Residual Disinfectant Level (MRDL) – The level of a disinfectant added for water treatment that may not be exceeded at the tap.

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

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

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

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

NS (No Standard): Contaminant for which there is no established MCL.

ND (Not Detected): Contaminant is not detectable at testing limit.

pCi/L: picoCuries per liter (a measure of radiation)

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

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

NTU: Nephelometric Turbidity Unit

TON: Threshold Odor Number

LI: Langelier Index; Noncorrosive = Any positive value, Corrosive = Any negative value

CU: Color Units

Micromhos: Units of electrical conductance

The sources of drinking water (both tap and bottled) 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, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, 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*, which 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, and septic systems.
- *Radioactive contaminants* which 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 USEPA and the State Water Resources Control Board (SWRCB) prescribes regulations which limit the number of certain contaminants in water provided by public water systems. SWRCB regulations also establish limits for contaminants in bottled water, which must provide the same protection for public health.

Tables 1 through 6 list all the drinking water contaminants that were detected from May 2012 through December 2020, unless otherwise noted. The presence of these contaminants in water does not necessarily indicate that the water poses a health risk. The SWRCB requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, may be more than one-year old.

Table 1 - Treatment of surface water sources		
Turbidity Performance Standard – Turbidity measures the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Turbidity of filtered water must be less than or equal to 0.3 NTU in 95% of measurements in a month. Not exceed 1.0 NTU for more than eight consecutive hours.	Treatment Technique for Lopez Project	Treatment Technique for State Water Conventional Treatment
Lowest monthly percentage of samples that met Turbidity Performance Standard 1.		
Highest single turbidity measurement during the year.		
The number of violations of any surface water treatment requirement.		
	100%	100%
	0.12 NTU	0.25
	0	0

Table 2 - Microbiological Contaminants (if detected)	Highest No. of Detections in any month	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	1	0	Treatment Technique (TT) Trigger - No more than 1 sample in a month with a detection	0	Naturally present in the environment
E. coli	0	0	0	0	Human and animal fecal waste

Table 3 – Detection of Contaminants with a <u>Primary</u> Drinking Water Standard			Lopez WTP		State Water		Groundwater		
Contaminant (reporting Units)	MCL (MRDL)	PHG(MCLG) (MRDLGS)	Range	Average	Range	Average	Range	Average	Potential Source of Contamination
Aluminum (ppm)	1	0.6	ND	ND	ND-1.3	ND-0.054	ND-ND	ND	Erosion of natural deposits; residue from some surface water treatment processes
Arsenic (ppb)	10	0.004	2.0-5.2	3.4	ND	ND	ND-2	.4	Runoff from orchards; natural deposits
Barium (ppm)	2	2		0.031	ND	ND	ND-ND	ND	Erosion of natural deposits
Copper (ppm)	RAL=1.3	0.3		ND	ND	ND	ND-ND	ND	Internal corrosion of household plumbing systems; erosion of natural deposits
Fluoride (ppm)	2.0	1		0.32	ND	ND	ND	0.23	Erosion of natural deposits
Nitrate as N (ppm)	10	10		ND	ND	ND	ND-8.2	4.8	Runoff/leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Selenium (ppb)	50	30		ND		ND	ND-6.1	1.80	Runoff/leaching from natural deposits
Hole Acetic Acids (ppb)	60	----	35-65	45.5	14-41	26	14.5-59.9	36.1	By-product of drinking water chlorination
Total Chlorine Residual (ppm)	MRDL= (4.0 as CL ₂)	[4]	2.03-3.24	2.77	1.05-4.06	2.87	0.1-2.20*	1.48*	Drinking water disinfectant added for treatment
Chlorite (ppm)	1.0	0.05	.43-0.84	0.71		NA	ND-ND	ND	By-product of drinking water disinfection
Chlorine Dioxide (ppb)	[800 as ClO ₂]	[800 as ClO ₂]	ND-680	116		NA	ND-ND	ND	Drinking water disinfectant added for treatment
Total Organic Carbon (ppm)	TT	----		ND	2-5.2	3.6	ND-ND	ND	Various natural and manmade sources
Gross Alpha Particle Activity (pCi/L)	15	NA	1.08-4.92	3.0	NA	NA	ND-4.3	2.15	Erosion of natural deposits
Total Trihalomethones (ppb)	80	----	42-97	57.8	24-77	54	46.6-78.7	57.9	By-product of drinking water chlorination

*These sample results are from the distribution system only.

Table 4 – Detection of Contaminants with a <u>Secondary</u> Drinking Water Standard		Lopez WTP		State Water		Groundwater		
Contaminant (reporting Units)	MCL	Range	Average	Range	Average	Range	Average	Potential Source of Contamination
Aluminum (ppm)	200	0.083	ND	NA	NA	ND-ND	ND	Naturally present in the environment
Chloride (ppm)	500		28	13-105	48	25-96	52	Runoff/leaching from natural deposits; seawater influence
Iron (ppb)	300		ND	ND	ND	ND	60	Leaching from natural deposits
Manganese (ppb)	50	19.51	28	ND	ND	ND	37	Leaching from Natural deposits
Color (CU)	15	13-4	13.7	ND	ND	ND	ND	Naturally occurring organic materials
Odor - (Ton)	3	ND-3.0	1.4	ND	ND	1-3	1.5	Naturally occurring organic materials
Specific Conductance (us/cm)	1600		660	152-611	381	820-1000	792.8	Runoff/leaching from natural deposits; industrial wastes
Sulfate ((ppm)	500		100	42	42	15-190	127	Runoff/leaching from natural deposits industrial wastes
Turbidity (NTU)	5		.12	ND-.25	.06	ND-90	0.46	Soil Runoff
Total Dissolved Solids (ppm)	1000		430	150	150	280-670	539	Runoff/leaching from natural deposits

Table 5 - Detection of Contaminants without a Drinking Water Standard	Lopez WTP		State Water		Groundwater		Potential Source of Contamination
Contaminant (reporting units)	Range	Average	Range	Average	Range	Average	
Alkalinity as CaCO ₃ (ppm)		181	28-86	54	130 - 390	206	Runoff/leaching from natural deposits; seawater influence
Calcium (ppm)	61-100	74	13.4	13.4	3.3 - 120	74	Runoff/leaching from natural deposits; seawater influence
Chlorate (ppb) (NAL = 800)	280 - 470	340*		NAD	ND - ND	ND	Byproduct of drinking water disinfection
Hardness (ppm)	410-470	438	28-134	78	8.2 - 330	320	Usually found in ground/surface water
Magnesium (ppm)	31-54	37	ND	ND	ND - 54	33	Runoff/leaching from natural deposits; seawater influence
PH		8.20	7.7-8.9	8.4	7.2 - 8.8	7.6	Runoff/leaching from natural deposits; seawater influence
Potassium (ppm)		ND	2.2	2.2	0.4 - 4.6	2.3	Runoff/leaching from natural deposits; seawater influence
Sodium (ppm)		52	31	31	38 - 110	54.8	Runoff/leaching from natural deposits; seawater influence
Vanadium [Notification Level 50 ppb]		ND		ND	ND - 5.7	2	Runoff/leaching from natural deposits

*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.

Table 6 - Sampling Results Showing the Detection of Lead and Copper						
Lead and Copper (to be completed only if there was a detection of lead or copper in the last sample set)	No. of samples collected	90 th percentile level detected	No. Sites exceeding AL	AL	MCLG	Typical Source of Contamination
Lead (ppb)	30	ND	0	15	2	Internal corrosion of household water plumbing systems
Copper (ppm)	30	0.37	0	1.3	0.3	Internal corrosion of household water plumbing systems

Additional General Information on Drinking Water

All 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 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).

A source water assessment was conducted for the City of Arroyo Grande water system in May 2013. No contaminants have been detected in the water supply; however the source is considered most vulnerable to the following activities: agricultural drainage, sewer collection systems, utility stations, agricultural wells, grazing, and NPDES/WDR permitted discharges. A complete copy of the assessment may be viewed at 1375 Ash Street, Arroyo Grande, CA 93420.

City of Arroyo Grande
Public Works Department
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Arroyo Grande, CA 93420

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