



San Lorenzo Valley Water District

Consumer Confidence Report

2018

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

What is this report?

This annual Consumer Confidence Report includes information on sources of water distributed by the San Lorenzo Valley Water District and includes a summary of the water quality tested in 2018. This report is intended to inform customers of the San Lorenzo Valley Water District about their drinking water quality. In an effort to provide this report to everyone, the District encourages landlords to provide a copy of this report to their tenants.

The San Lorenzo Valley Water District safeguards its water supplies and provides surface water treatment to ensure that customers receive the highest quality drinking water possible. In 2018, as in the years past, the San Lorenzo Valley Water District is pleased to report that our water provided to our customers met or surpassed all State of California and US Environmental Protection Agency drinking water health standards.

The SLVWD's mission is to provide our customers and all future generations with reliable, safe and high quality water at an equitable price; to create and maintain outstanding customer service; to manage and protect the environmental health of the aquifers and watersheds; and to ensure the fiscal vitality of the San Lorenzo Valley Water District.

Where does our water come from?

The San Lorenzo Valley Water District provides water to two separate drinking water systems: *The San Lorenzo Valley Water District* and *The San Lorenzo Valley Water District-Felton*. Each of these two drinking water systems have their own separate source of drinking water supply. The SLVWD and SLVWD-Felton systems have an interconnection, which allows for the transfer of water between the two systems on an emergency basis. In 2018, the SLVWD received approximately 2.5 million gallons of water from the SLVWD-Felton system, or approximately 0.4% of water provided; while the SLVWD-Felton system received 1.6 million gallons of water from the SLVWD system, or approximately 1.4% of water provided.

San Lorenzo Valley Water District System:

The San Lorenzo Valley Water District system service area includes the communities of: Boulder Creek, North of Boulder Creek, Brookdale, Ben Lomond, Quail Hollow, Glen Arbor, Zayante, Lompico and the Scotts Valley areas of Hidden Glenn,

Lockewood Ln, Pasatiempo Pines, Whispering Pines, Manana Woods and both Spring Lakes and Vista Del Lago Mobile Home Parks.

Water Supply for the SLVWD system primarily utilizes surface water during the months of November to May. During periods of high stream flow, surface water can provide up to 100% of the drinking water in the SLVWD system. These surface sources are diverted from streams which are located in remote areas high within the District's protected watershed, away from human contamination. These streams come from granite formations with very low mineral content. This results in very soft, pleasant tasting water. These streams undergo filtration at one of the District's conventional surface water treatment plants.

To supplement supply during periods of low stream flow, the SLVWD blends surface water with groundwater from 3 separate wellfields: The Quail Hollow wellfield, the Olympia wellfield and the Pasatiempo Wellfield.

The Quail Hollow wellfield is located in the Ben Lomond area. The two Quail Hollow wells produce water that is soft and is similar in quality to the surface water sources.

The Olympia wellfield is located in the Zayante area. The two Olympia production wells produce water that has a higher mineral content, primarily iron, manganese and carbonate hardness. These minerals do not pose a health hazard when consumed, but affect the aesthetic qualities of water, such as taste, odor and color. Dissolved gases present in the Olympia wells may also affect the taste and odor of the water. Customers in the Hihn Rd and Zayante area may experience periods of discolored water caused by precipitation of dissolved iron and manganese. The SLVWD adds polyphosphate to the Olympia well water to slow down the precipitation process; however, this is not completely effective and some deposition of iron and manganese can occur on the water mains. During periods of higher flow, these deposits of iron and manganese can become dislodged, which will result in discolored water. If discolored water is observed at your faucets cold water tap, the water is safe to use; however you may want to avoid washing laundry as staining may occur. If you experience prolonged periods of discolored water in all of your indoor cold water taps, please contact customer service at (831)338-2153.

The Pasatiempo wellfield is located off of Graham Hill Rd in Scotts Valley and primarily serves the Scotts Valley and Manana Woods neighborhoods. The three Pasatiempo wells produce water that is soft and similar in quality to the surface water sources.

San Lorenzo Valley Water District-Felton System:

The San Lorenzo Valley Water District-Felton system service area includes the town of Felton, Hwy 9 south to Big Trees, San Lorenzo Ave, Felton Empire Grade, Felton Grove and El Solyo Heights. Customers in the SLVWD-Felton system are supplied water from Bennett Springs, Bull Springs and Fall Creek. Drinking water treatment for these sources is provided at a conventional surface water treatment plant. These surface water sources have a moderate amount of dissolved minerals, primarily carbonate hardness. Customers off of Felton Empire Rd, Fetherston Way and Jenny Way receive chlorinated water direct from Bennett Springs.

Source Water Assessments and Protection:

A Source Water Assessment lists possible contaminating activities and the susceptibility of identified contamination threats that might affect the quality of our drinking water supplies. Copies of Source Water Assessments for each water source are available at the District Office. In 2018, the San Lorenzo Valley Water District completed a sanitary survey update to the San Lorenzo River Watershed.

Factors contributing to the potential vulnerability of the surface water sources of the San Lorenzo Valley Water District include: managed forests, septic systems, recreational activities, and government or institutional facilities. Factors contributing to the potential vulnerability of the groundwater sources of the San Lorenzo Valley Water District include: the high percolation capacity of the Santa Margarita Sandstone Aquifer, residential septic tank systems, unused production wells and equestrian activities.

Many common household products are hazardous if carelessly handled or stored. Chemicals poured on the ground, down the drain, or the toilet can pollute our drinking water. Of particular concern are volatile organic chemicals (or, VOC's) and synthetic organic chemicals (or, SOC's). VOC's are chemicals commonly found in paints, solvents, degreasers and automotive products. SOC's are found in herbicides and pesticides. These products should be disposed of in a proper and responsible manner. The County of Santa Cruz receives household hazardous waste at the Ben Lomond Transfer Station. The SLVWD strongly encourages consumers to make use of this convenient program. For more information on disposal and receiving times, you may call the County at (831)454-2022.

Why are there contaminants in drinking water?

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 U.S. EPA's Safe Drinking Water Hotline (1-800-426-4791).

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 storm water 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 storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water 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 (EPA) and the California 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.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised 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. U.S EPA/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).

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes Cryptosporidium, the most commonly-used filtration methods cannot guarantee 100 percent removal. Our 2017-2018 monitoring indicates the presence of these organisms in our surface water for the SLVWD system. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, and abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However,

immuno-compromised people, infants and small children, and the elderly are at greater risk of developing life threatening illness. We encourage immuno-compromised individuals to consult with their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

Lead 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 is primarily from materials and components associated with service lines and home plumbing. The SLVWD 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/lead>.

The SLVWD monitors for lead and copper at the customer's tap throughout the service area on a regular basis in accordance with the USEPA's Lead and Copper Rule regulations. The rule requires public water systems to sample at customers' homes that meet specific criteria where elevated levels of lead and copper are more likely to be found. Since 1993 samples have shown levels of lead and copper in service areas of the SLVWD to be well below the action levels set by the USEPA. See the enclosed water quality table for test results from the latest round of sampling.

In 2017, the San Lorenzo Valley Unified School District requested that the SLVWD conduct lead sampling at all seven SLVUSD campuses. Sample locations at all campuses included food preparation areas, drinking fountains and water bottle filling stations. All samples collected at SLVUSD campuses were well below the State's Lead Action Level of 15 ppb.

Water quality data Tables:

Each water quality data table lists drinking water contaminants that were detected in 2018 for each respective water system. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk.

To better interpret the water quality data tables, please see the following definitions and notes:

Definitions:

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

Primary Drinking Water Standard (PDWS): MCL's, MRDL's, and treatment techniques (TT's) for contaminants that affect health, along with their monitoring and reporting requirements.

Secondary Drinking Water Standard (SDWS): MCL's for contaminants that may adversely affect the taste, odor or appearance of drinking water. These are aesthetic considerations that are not considered as health concerns.

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.

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

MRDL (Maximum Residual Disinfectant Level): The highest level of a disinfectant allowed in drinking water. There is now 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.

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

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

N/A: Not Applicable

Units:

ppm: Parts per million, or milligrams per liter. The time equivalent to 1 ppm is one second in 11.5 days.

ppb: Parts per billion, or micrograms per liter. The time equivalent to 1 ppb is one second in nearly 32 years.

NTU: Nephelometric Turbidity Units.

pCi/L: Picocuries per liter (a measurement of radioactivity).

Notes:

1. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently.
2. SLVWD Olympia 2 and Olympia 3 Wells periodically exceed the Secondary Maximum Contaminant Level (SMCL) for iron and manganese. SMCLs are set for aesthetic reasons and do not cause adverse health effects. Iron and manganese can cause discolored water and staining. To offset this effect, the SLVWD adds polyphosphate, which acts to keep iron and manganese in solution and help prevent problems associated with this mineral.



SLVWD System Water Quality Testing Results

(Service area includes: Boulder Creek, Brookdale, Ben Lomond, Lompico, Zayante and the Scotts Valley areas of Lockwood Ln, Whispering Pines, Hidden Glenn and Manana Woods.)

Contaminants Regulated by a Primary Drinking Water Standard:						
	PHG or MCLG	MCL	Average	Range of Detection	Sample Date	Typical Sources of Contamination
Arsenic (ppb)	0.004	10	<2	<2-3.2	2018	Erosion of natural deposits.
Fluoride (ppb)	1000	2000	<100-570	175	2018	Erosion of natural deposits.
Nitrate as Nitrogen (ppm)	10	10	0.8	<0.4-2.3	2018	Runoff/leaching from natural deposits
Gross Alpha particle activity (pCi/L)	N/A	15	<3.0	<3.0-3.2	2012 ¹	Erosion of natural deposits.
Additional Contaminants Regulated by a Primary Drinking Water Standard:						
	PHG or MCLG	MCL	Range of Detection	Highest Measurement	Sample Date	Typical Sources of Contamination
Turbidity (NTU)	N/A	TT=95% of samples ≤ 0.2 NTU	≤ 0.2 in 99.4% of samples	0.23	2018	Soil runoff. Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system.
Contaminants Regulated by a Secondary Drinking Water Standard:						
	PHG or MCLG	Secondary MCL	Average	Range of Detection	Sample Date	Typical Sources of Contamination
Chloride (ppm)	N/A	500	7	5.7-9.3	2018	Runoff/leaching from natural deposits.
Sulfate (ppm)	N/A	500	46	3.1-167	2018	Runoff/leaching from natural deposits.
Total Dissolved Solids (ppm)	N/A	1000	205	96-570	2018	Runoff/leaching from natural deposits.
Iron (ppb) ²	N/A	300	202	<100-5400	2018	Runoff/leaching from natural deposits.
Manganese (ppb) ²	N/A	50	33	<20-220	2018	Leaching from natural deposits
Disinfection Residual and Disinfection By-Products :						
	PHG or [MRDLG]	MCL or [MRDL]	Average	Range of Detection	Sample Date	Typical Sources of Contamination
Free Chlorine (ppm)	[4]	[4]	0.95	0.23-1.77	2018	Drinking water disinfectant added for treatment.
Total Trihalomethanes (ppb)	N/A	80	45	<1-47	2018	By-product of drinking water disinfection
Haloacetic Acids as HAA5 (ppb)	N/A	60	22	<1-28	2018	By-product of drinking water disinfection
Lead and Copper Monitoring:						
	PHG	AL	Number of Sites Exceeding AL	90th Percentile Level Detected	Sample Date	Typical Sources of Contamination
Lead (ppb)	0.2	15	0 of 36 Samples Collected	<5.0	2017 ¹	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	0.3	1.3	0 of 36 Samples Collected	0.5	2017 ¹	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives
Other 2018 Monitoring Results:						
	Average	Range of Detection	Sample Date	Typical Source of Contamination		
Hardness (ppm)	115	44-410	2018	Hardness is the sum of the major cations, primarily calcium and magnesium. The cations are usually naturally occurring		
Sodium (ppm)	13	9.2-19	2018	Sodium refers to the salt present in the water and is generally naturally occurring.		

SLVWD-Felton System Water Quality Testing Results

(Service area includes the Town of Felton, Felton Empire Grade, Felton Grove, San Lorenzo Ave and El Solyo Heights)

Contaminants Regulated by a Primary Drinking Water Standard:						
	PHG or MCLG	MCL	Average	Range of Detection	Sample Date	Typical Sources of Contamination
Aluminum (ppm)	0.6	1	<0.05	<0.05-0.06	2018	Erosion of natural deposits; residue from some surface water treatment processes.
Fluoride (ppb)	1000	2000	<100	<100-130	2018	Erosion of natural deposits.
Gross Alpha particle activity (pCi/L)	0	15	<3.0	<3.0-4.3	2014 ¹	Erosion of natural deposits.
Additional Contaminants Regulated by a Primary Drinking Water Standard:						
	PHG or MCLG	MCL	Range of Detection	Highest Measurement	Sample Date	Typical Sources of Contamination
Turbidity (NTU)	N/A	TT=95% of samples ≤ 0.2 NTU	≤ 0.2 in 100% of samples	0.2	2018	Soil runoff. Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system.
Contaminants Regulated by a Secondary Drinking Water Standard:						
	PHG or MCLG	Secondary MCL	Average	Range of Detection	Sample Date	Typical Sources of Contamination
Chloride (ppm)	N/A	500	9.1	7.5-8.4	2018	Runoff/leaching from natural deposits.
Sulfate (ppm)	N/A	500	8.8	8.6-9.2	2018	Runoff/leaching from natural deposits.
Total Dissolved Solids (ppm)	N/A	1000	256	150-310	2018	Runoff/leaching from natural deposits.
Disinfection Residual and Disinfection By-Products:						
	PHG	MCL or [MRDL]	Average	Range of Detection	Sample Date	Typical Sources of Contamination
Free Chlorine (ppm)	4	[4]	0.74	0.36-1.64	2018	Drinking water disinfectant added for treatment.
Total Trihalomethanes (ppb)	N/A	80	23	13-22	2018	By-product of drinking water disinfection
Haloacetic Acids as HAA5 (ppb)	N/A	60	14	8.0-14	2018	By-product of drinking water disinfection
Lead and Copper Monitoring:						
	PHG	AL	Number of Sites Exceeding AL	90th Percentile Level Detected	Sample Date	Typical Sources of Contamination
Lead (ppb)	0.2	15	0/20	<5.0	2017 ¹	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	0.3	1.3	0/20	0.37	2017 ¹	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives
Other Monitoring Results :						
	Average	Range of	Sample Date	Typical Source of Contamination		
Hardness (ppm)	205	100-260	2018	Hardness is the sum of the major cations, primarily calcium and magnesium		
Sodium (ppm)	8.9	6.7-10	2018	Runoff/leaching from natural deposits		

The San Lorenzo Valley Water District hopes this Consumer Confidence Report is of value to you. If you have any questions about your water quality or on interpreting the data of this report, please contact:

Nate Gillespie, Water Treatment and System Supervisor

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Boulder Creek, CA 95006

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Email: ngillespie@slvwd.com

The Board of Directors of the San Lorenzo Valley Water District invite you to attend its meeting to express your views and opinions. Regularly scheduled Board meetings are on the 1st and 3rd Thursdays of every month. Meetings start at 6:30 PM. The meeting location is at the SLVWD's Board Room located at 13057 Hwy 9 in Boulder Creek, 95006. Please consult the District website or call (831)430-4636 for meeting location and agenda information.

