## 2018 Consumer Confidence Report

Water System Name: Paradise Valley CSA No. 16
---

Report Date: May 10, 2019

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 to December 31, 2018 and may include earlier monitoring data.

# Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Paradise Valley, CSA 16 a 230 N. Main Street, Lakeport, CA 95453, (707) 263-0119 para asistirlo en español.

Type of water source(s) in use: Wells (3)	
Name & general location of source(s): Well No. 1; Location: Well No. 2; Location: 8520 E. Hwy 20, Lucerne, CA; Well No. 3; Location: 822	Paradise Lagoon Dr., Lucerne, CA
Drinking Water Source Assessment information: Date of Special The source is considered most vulnerable to the following activities	Assessment: Well No. 1: Dec. 2001; for a copy contact Districts (707) 263-0119
Recreational area - surface water source; Sewer collection systems Time and place of regularly scheduled board meetings for pu Meets at 9:00 a.m. on the first four Tuesdays of each month at 255 N. Forbes S	t., Lakeport, CA 95453
For more information, contact: <u>Scott Harter, Deputy Admini</u>	
TERMS USED	IN THIS REPORT
<ul> <li>Maximum Contaminant Level (MCL): 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.</li> <li>Maximum Contaminant Level Goal (MCLG): 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 (U.S. EPA).</li> <li>Public Health Goal (PHG): 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.</li> <li>Maximum Residual Disinfectant Level (MRDL): 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.</li> <li>Maximum Residual Disinfectant Level Goal (MRDLG): 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.</li> <li>Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.</li> </ul>	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. <b>Treatment Technique (TT)</b> : A required process intended to reduce the level of a contaminant in drinking water. <b>Regulatory Action Level (AL)</b> : The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow. <b>Variances and Exemptions</b> : State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions. <b>Level 1 Assessment</b> : A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system. <b>Level 2 Assessment</b> : A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an <i>E. coli</i> MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions. <b>ND</b> : not detectable at testing limit <b>ppm</b> : parts per million or milligrams per liter (mg/L) <b>ppt</b> : parts per trillion or manograms per liter (mg/L) <b>ppt</b> : parts per trillion or nanograms per liter (mg/L) <b>ppt</b> : parts per quadrillion or picogram per liter (mg/L) <b>ppt</b> : parts per liter (a measure of radiation)

**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 byproducts 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. 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. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, and 6 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA								
Microbiological Contaminants (complete if bacteria detected)	Highest N Detectio		o. of Months n Violation	S MCL		MCLG	Typical Source of Bacteria	
Total Coliform Bacteria (state Total Coliform Rule)	(In a mor 0	nth)	0 1 positive monthly sample				0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the ye	ear)	0 A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive				Human and animal fecal waste	
<i>E. coli</i> (federal Revised Total Coliform Rule)	(In the ye	ear)	0		(a)		0	Human and animal fecal waste
(a) Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> . <b>TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER</b>								
Lead and Copper (complete if lead or copper	Sample	No. of Sample	s Percentil	e No. Sites Exceeding	AL	PHG	No. of Schools Requesting	Typical Source of Contaminant
detected in the last sample set)		Collecte	d Detected	AL			Lead Sampling	
Lead (ppb)	6/20/2018	5	ND	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	6/20/2018	5	0.695	0	1.3	0.3	0	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS						
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	10/15/2018 11/29/2016	36	24-47	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	10/15/2018 11/29/2016	287	194-362	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4 – DETECTION OF CONTAMINANTS WITH A <u>PRIMARY</u> DRINKING WATER STANDARD						
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant

Arsenic (ppb)	10/15/2018	2.3	NA	10	0.004	Erosion of natural deposits; runoff from orchards
Barium (ppm)	11/29/2016	0.23	NA	1	2	Erosion of natural deposits
Fluoride (ppm)	10/15/2018 11/29/2016	0.24	0.17-0.28	2.0	1	Erosion of natural deposits
Gross Alpha Particle Activity (pCi/L)	4/11/2016 6/8/2016	0.724	0.022-1.11	15	0	Erosion of natural deposits
Mercury (ppb)	10/15/2018	1.7	NA	2.0	1.2	Erosion of natural deposits
Haloacetic Acids (five) (HAA5) (ppb)	8/15/2017	6.7	NA	60	NA	Byproduct of drinking water disinfection
TTHMs (Total Trihalomethanes) (ppb)	8/15/2017	8.83	NA	80	NA	Byproduct of drinking water disinfectio
TABLE 5 – DETE	CTION OF	CONTAMINAN	NTS WITH A <u>S</u> I	ECONDAR	Y DRINKI	NG WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Chloride (ppm)	10/15/2018 11/29/2016	5.37	4.4-5.9	500		Erosion of natural deposits
Iron (ppb)	10/15/2018 11/29/2016	*1633	1100-3800	300		Leaching from natural deposits
Manganese (ppb)	10/15/2018 11/29/2016	*661	64-1600	50		Leaching from natural deposits
Specific Conductance (µS/cm)	10/15/2018 11/29/2016	617	450-720	1600		Substances that form ions when in wate
Total Dissolved Solids (ppm)	10/15/2018 11/29/2016	300	160-450	1000		Erosion of natural deposits
Turbidity (NTU)	10/15/2018 11/29/2016	*26.34	0.81-73	5		Soil runoff
Sulfate (ppm)	10/15/2018 11/29/2016	13.87	3.2-33	500		Erosion of natural deposits
Zinc (ppm)	11/29/2016	0.85	NA	5.0		Runoff / Leaching from natural deposits
	TABLE	6 – DETECTION	N OF UNREGU	LATED CC	ONTAMINA	NTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level		Health Effects Language
None		NA				

#### **Additional General Information on 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 the 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).

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. 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).

Lead-Specific Language: 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. [Paradise Valley CSA-16] 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 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 (1-800-426-4791) or at <a href="http://www.epa.gov/lead">http://www.epa.gov/lead</a>.

#### Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
Iron exceeded the secondary MCL of 300 ppb	Water chemistry changes occur naturally due to water level fluctuations and pumping rates.	One occurrence in each of two wells	Iron issues have been mitigated after maintenance of the filtration system prior to distribution.	The MCL was set to protect you against unpleasant aesthetic effects (color, taste, odor)
Manganese exceeded the secondary MCL of 50 ppb	Water chemistry changes occur naturally due to water level fluctuations and pumping rates.	One Occurrence in each of three wells	Manganese issues have been mitigated after maintenance of the filtration system prior to distribution.	High levels of manganese have been shown to result in effects of the nervous system.
Turbidity exceeded the secondary MCL of 5 NTU	Water chemistry changes occur naturally due to water level fluctuations and pumping rates.	One Occurrence in each of two wells	Turbidity issues have been mitigated after maintenance of the filtration system prior to distribution.	Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms.

### For Water Systems Providing Groundwater as a Source of Drinking Water

TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLES								
Microbiological Contaminants (complete if fecal-indicator detected)Total No. of DetectionsSample DatesMCL [MRDL]PHG 								
E. coli	(In the year) - 0	monthly	0	(0)	Human and animal fecal waste			
Enterococci	(In the year) - 0	monthly	TT	N/A	Human and animal fecal waste			
Coliphage	(In the year) - 0	monthly	TT	N/A	Human and animal fecal waste			

#### Summary Information for Fecal Indicator-Positive Groundwater Source Samples, Uncorrected Significant Deficiencies, or Groundwater TT

SPECIAL NOTICE OF FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLE								
	NA							
	SPECIAL NOTICE FOR UNCORRECTED SIGNIFICANT DEFICIENCIES							
NA								
VIOLATION OF GROUNDWATER TT								
TT ViolationExplanationDurationActions Taken to Correct the ViolationHealth Effects Language								
NA	NA	NA	NA	NA				

#### Summary Information for Operating Under a Variance or Exemption