2019 Consumer Confidence Report

Water System Name: Riverkern Mutual Water Co. 1500251 Report Date: May 11, 2020

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 - December 31, 2019 and may include earlier monitoring data.

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

Type of water source(s) in use: Groundwater

Name & general location of source(s): Well 1-01 and Well 3-01, located in Kernville, CA

Drinking Water Source Assessment information: Source water assessments for Wells 01 and 03 were submitted to the Division of Drinking Water in January of 2009. The assessments identify possible sources of contamination to aid in prioritizing pollution cleanup and prevention efforts. The reports are available for viewing at our office. Wells 01 and 03 are considered to be most vulnerable to activities associated with contaminants detected in water supply, agricultural drainage, other animal operations, pesticide/fertilizer/petroleum storage and transfer areas, septic systems (low density < 1 house per acre), sewer collection systems, irrigated crops (berries, hops, mint, orchards, sod, and greenhouses), housing (high density > 1 house per 0.5 acre), campgrounds, recreational areas, and RV parks. The sources are considered most vulnerable to the following activities not associated with any detected contaminants: farm machinery repair and underground storage tanks (tanks smaller than regulatory limit).

Time and place of regularly scheduled board meetings for public participation: 9 am - Third Saturday every month at 237 Cowbelle Blvd., Kernville, CA 93238

For more information, contact: Tobin Josif Phone: (760) 376-1229

TERMS USED IN THIS REPORT

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.

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).

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.

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.

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.

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 treatment or other requirements that a water system must follow.

Variances and Exemptions: State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

Level 1 Assessment: 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.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

ND: not detectable at testing limit

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

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

ppb: parts per billion or micrograms per liter (μg/L)
ppt: parts per trillion or nanograms per liter (ng/L)
ppq: parts per quadrillion or picogram per liter (pg/L)
pCi/L: picocuries 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 No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria			
Total Coliform Bacteria (state Total Coliform Rule)	2019: 0	0	1 positive monthly sample	0	Naturally present in the environment			
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	2019: 0	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	0	Human and animal fecal waste			
E. coli (federal Revised Total Coliform Rule)	2019: 0	0	(a)	0	Human and animal fecal waste			

(a) Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER									
Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of Samples Collected	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant	
Lead (ppb)	2017	13	ND	0 of 13	15	0.2	N/A	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits	

Copper (ppm)	2017	13	0.20	0 of 13	1.3	0.3	N/A Internal corrosion of
							household plumbing syst erosion of natural deposi leaching from wood preservatives
	TABLE 3	- SAMPLIN	G RESU	JLTS FOR	SODIUM	AND H	HARDNESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected		ange of tections	MCL		HG CLG) Typical Source of Contamin
Sodium (ppm)	2018-2019	29	2	22 - 36	N/A	N	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2018-2019	93	7	6 - 110	N/A	N	I/A Sum of polyvalent cations pres in the water, generally magnesi and calcium, and are usually naturally occurring
TABLE 4 – DET	TECTION O	F CONTAM	INANT	S WITH A	PRIMAR'	Y DRIN	NKING WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected		ange of tections	MCL [MRDL]	(MC	HG CLG) Typical Source of Contamin DLG]
Fluoride (ppm)	2018-2019	0.39	0.3	35 – 0.42	2.0	1	.0 Erosion of natural deposits; water additive which promo strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha (pCi/L)	2015-2016	4.65	3	.9 - 5.4	15	(((0) Erosion of natural deposits
Nitrate as N (ppm)	2019	1.3	N	TD - 3.1	10	1	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Total Trihalomethane, TTHM (ppb)	2019	3.9		3.9	80	N	Byproduct of drinking water disinfection
Total Haloacetic Acids (HAA5)	2019	12		12	60	N	I/A
Uranium (pCi/L)	2015-2016	3.22	3	21- 3.23	20	((0) Erosion of natural deposits
TABLE 5 – DETE	ECTION OF	CONTAMI	NANTS	WITH A <u>S</u> I	ECONDA	RY DRI	INKING WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected		ange of etections	MCL		HG CLG) Typical Source of Contamin
Chloride (ppm)	2018-2019	11	7	7.2 - 14	500	N	Runoff/leaching from natural deposits; seawater influence
Color (units)	2018-2019	2.5	1	ND - 5	15	N	I/A Naturally-occurring organic materials
Manganese (ppb)	2018-2019	5.1	4	.0 – 6.2	50	N	I/A Leaching from natural deposits
Specific Conductance (μS/cm)	2019	342	20	00 - 410	1600	N	Substances that form ions when water; seawater influence
· ·	4				1		

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS								
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notificat	tion Level	Health Effects Language		

13 - 24

140 - 250

0.17 - 0.23

500

1000

5

N/A

N/A

N/A

2018-2019

2018-2019

2018-2019

19

195

0.20

Sulfate (ppm)

Turbidity (Units)

TDS (ppm)

Runoff/leaching from natural deposits; industrial wastes

Runoff/leaching from natural

deposits

Soil runoff

рН	2019	7.1	7.0-7.2	N/A	N/A
Alkalinity total as CaCO3	2019	116	75-140	N/A	N/A

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 for Community Water Systems: 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. Riverkern Mutual Water Company 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. [Optional: 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 (1-800-426-4701) or at http://www.epa.gov/lead.

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 Detections Sample Dates MCL [MRDL] PHG (MCLG) [MRDLG] Typical Source of Contaminant								
E. coli	2019: 0	Monthly	0	(0)	Human and animal fecal waste			
Enterococci	N/A	N/A	TT	n/a	Human and animal fecal waste			
Coliphage	N/A	N/A	TT	n/a	Human and animal fecal waste			