2018 Consumer Confidence Report

Water System Name: Carmel Riviera Mutual Water Co. Report Date: June 25, 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 - December 31, 2018 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: Ground and Surface Water Sources

Name & location of source(s): Well #1 is located on Mal Paso Creek near Highway 1. Wells #2 and #3 are in

Mentone Canyon. Wells #5 and #6 are located one mile east of Highway 1 and Malpaso Bridge. Well #9 is located in the quarry, near the filtration plant. Wells #11, #14, #16, #17, and #18 are located on the Victorine well field. The Creek source is

located on Mal Paso Creek.

Time and place of regularly scheduled board meetings for public participation: Quarterly at the Highlands Fire

Department.

For more information, contact: Carmel Riviera Mutual Water Co. Phone: (831) 624-6595

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 (USEPA).

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.

Primary Drinking Water Standards (PDWS): MCLs and MRDLs 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 treatment or other requirements that a water system must follow.

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

ND: not detectable at testing limit

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

ppb: parts per billion or micrograms per liter (ug/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 by-products 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 USEPA and the California Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, 7, and 8 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 Department 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.

TABLE 1 –	SAMPLING	RESULTS	S SHOWING T	HE DETECT	TION OF C	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	0	0	More than 1 sample in a month with a detection		0	Naturally present in the environment
Fecal Coliform or E. coli	0	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>		0	Human and animal fecal waste
TABLE 2	- SAMPLIN	G RESUL	TS SHOWING	THE DETE	CTION OF	LEAD AND COPPER
Lead and Copper (complete if lead or copper detected in the last sample set)	No. of samples collected	90 th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	9 (2017)	0	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natura deposits
Copper (ppm)	9 (2017)	0.216	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
	TABLE 3 -	- SAMPLI	NG RESULTS	FOR SODIU	JM AND H	ARDNESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2018	37.5	35-40	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2018	80.5	77-84	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

^{*}Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided later in this report.

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
Aluminum (ppb)	2018	13	9-35	1000	600	Erosion of natural deposits; residue from some surface water treatment processes
Arsenic (ppb)	2018	ND	ND	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium (ppb)	2018	26.4	20.7-23.7	1000	2000	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Bromate (ppb)	2014	0.2	ND-0.5	10	0	Byproduct of drinking water disinfection
Chromium (ppb)	2018	ND	ND	50	(100)	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride (ppm)	2018	1.56	0.4-2.1	2	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha(pCi/L)	2014	5.7	5.7	15	(0)	Erosion of natural deposits
Haloacetic Acids (ppb)	2018	5.25	2-10	60	N/A	Byproduct of drinking water disinfection
Nitrate (ppm)	2018	0.57	ND-2.9	45	45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Radium 228 (pCi/L)	2011	0.003	0-0.047	5	0.019	Erosion of natural deposits
TTHMs (Total Trihalomethanes) (ppb)	2018	15.75	12-196	80	N/A	By-product of drinking water disinfection
Uranium (pCi/L)	2018	8.58	1.8-16.7	20	0.043	Erosion of natural deposits
TABLE 5 – DETE	CTION OF	CONTAMI	NANTS WITI	H A SECO	NDARY DR	INKING WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Chloride (ppm)	2018	41	35-47	500	NA	Runoff/leaching from natural deposits; seawater influence
Color	2018	22*	20-24	15	NA	Naturally-occurring organic materials
Conductivity	2018	332	298-366	900	NA	Substances that form ions when in water; seawater influence
Iron (ppb)	2018	232.89	ND-2940	300	NA	Leaching from natural deposits; industrial wastes
Odor (TON)	2018	2	2	3	NA	Naturally-occurring organic materials
Sulfate (ppm)	2018	13	11-15	500	NA	Runoff/leaching from natural deposits' industrial wastes
Total Dissolved Solids (TDS) (ppm)	2018	210	194-226	500	NA	Runoff/leaching from natural deposits
Turbidity	2018	2.1	ND-5.57	5	NA	Soil runoff
Zinc (ppm)	2018	ND	ND	5	NA	Runoff/leaching from natural deposits; industrial wastes

TABLE 6 – DETECTION OF STATE REGULATED CONTAMINANTS WITH A <u>NO</u> MCLS						
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Langugage	
				until December 14, 2017,	Some people who drink water containing 1,2,3-TCP in excess of the MCL over many years may have an increased risk of	
Trichloropropane (1,2,3-TCP)	2018	ND	ND	became effective.	getting cancer.	

^{*}Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

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 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).

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. Carmel Riviera 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. 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.

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

V	VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT					
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language		
Color	Average levels for 2018 are 22 units, exceeding the MCL of 15 units.	2018	None	Color is a secondary standard and consumption of water high in color has no associated health risk.		

For Water Systems Providing Ground Water as a Source of Drinking Water

TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUND WATER 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	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

For Systems Providing Surface Water as a Source of Drinking Water

TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES					
Treatment Technique ^(a) (Type of approved filtration technology used)	Treatment techniques include polymer added in-line filtration, two-stage pressure sand filtration, two-stage activated carbon filtration, and post-chlorination				
	Turbidity of the filtered water must:				
Turbidity Performance Standards (b) (that must be met through the water treatment process)	1 – Be less than or equal to 0.2 NTU in 95% of measurements in a month.				
(that must be met through the water treatment process)	Treatment plant turbidity is monitored continually and logged daily.				
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100%				
Highest single turbidity measurement during the year	0.964 NTU				
Number of violations of any surface water treatment requirements	None				

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

⁽b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

^{*} Any violation of a TT is marked with an asterisk. Additional information regarding the violation is provided below.