

2019 Consumer Confidence Report

Water System Name: SAN CAYETANO MUTUAL WATER CO Report Date: April 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.

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: According to SWRCB records, Wells 05, 07, 08 and 09 are Groundwater. This Assessment was done using the Default Groundwater System Method. Well 04 is now inactive

Your water comes from 4 source(s): Well 05, Well 07, Well 08 and Well 09
and from 3 treated location(s): Blend (Wells 8,7,5&4), Blend Wells 5 & 9 and Blend Wells 8 & 9

Opportunities for public participation in decisions that affect drinking water quality: Regularly-scheduled water board or city/county council meetings currently are not held. If a meeting is schedules notices are sent out via email or U.S. Postal Service.

For more information about this report, or any questions relating to your drinking water, please call (805) 207 - 0347 and ask for Gary Ball or email gball221@aol.com.

TERMS USED IN THIS REPORT

<p>Maximum Contaminant Level (MCL): The highest level of contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.</p>	<p>Secondary Drinking Water Standards (SDWS): MCLs for the contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.</p>
<p>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).</p>	<p>Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.</p>
<p>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.</p>	<p>Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.</p>
<p>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.</p>	<p>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.</p>
<p>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.</p>	<p>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.</p>
<p>Primary Drinking Water Standards (PDWS): MCLs and MRDLs for the contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.</p>	<p>ND: not detectable at testing limit</p>
	<p>mg/L: milligrams per liter or parts per million (ppm)</p>
	<p>ug/L: micrograms per liter or parts per billion (ppb)</p>
	<p>pCi/L: picocuries per liter (a measure of radiation)</p>
	<p>NTU: Nephelometric Turbidity Units</p>
	<p>umhos/cm: micro mhos per centimeter</p>

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 State Water Resource Control Board (State Water Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Water Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, 6, 7, 8 and 9 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 Water 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 MCL, AL or MRDL is highlighted. 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 Sources of Contaminant
Total Coliform Bacteria	2/mo. (2019)	1	no more than 1 positive monthly sample	0	Naturally present in the environment.

Table 2 - SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER						
Lead and Copper (complete if lead or copper detected in last sample set)	Sample Date	90th percentile level detected	No. Sites Exceeding AL	AL	PHG	Typical Sources of Contaminant
Copper (mg/L)	5 (2018)	0.21	0	1.3	.3	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	Average Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Sources of Contaminant
Sodium (mg/L)	(2017 - 2019)	86	75 - 93	none	none	Salt present in the water and is generally naturally occurring
Hardness (mg/L)	(2017 - 2019)	507	449 - 552	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 PRIMARY DRINKING WATER STANDARD						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Sources of Contaminant
Fluoride (mg/L)	(2017 - 2019)	0.7	0.5 - 0.8	2	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.
Nitrate as N (mg/L)	(2019)	1.6	0.9 - 2.0	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Nitrate + Nitrite as N (mg/L)	(2017 - 2019)	1.7	0.9 - 2.3	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Selenium (ug/L)	(2017 - 2019)	ND	ND - 7	50	30	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots(feed additive)
Gross Alpha (pCi/L)	(2017 - 2019)	6.75	4.59 - 10.3	15	(0)	Erosion of natural deposits.
Uranium (pCi/L)	(2017 - 2019)	5.024	4.757 - 5.42	20	0.43	Erosion of natural deposits

Table 5 - TREATED DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Sources of Contaminant
Nitrate as N (mg/L)	(2014)	2.8	n/a	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits

Table 6 - DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Sources of Contaminant
Chloride (mg/L)	(2017 - 2019)	46	42 - 50	500	n/a	Runoff/leaching from natural deposits; seawater influence
Color (Units)	(2017 - 2019)	1	ND - 5	15	n/a	Naturally-occurring organic materials
Iron (ug/L)	(2017 - 2019)	ND	ND - 290	300	n/a	Leaching from natural deposits; Industrial wastes
Manganese (ug/L)	(2017 - 2019)	114	ND - 260	50	n/a	Leaching from natural deposits
Odor Threshold at 60 °C (TON)	(2017 - 2019)	1	ND - 4	3	n/a	Naturally-occurring organic materials.
Specific Conductance (umhos/cm)	(2017 - 2019)	1285	1180 - 1340	1600	n/a	Substances that form ions when in water; seawater influence
Sulfate (mg/L)	(2017 - 2019)	418	336 - 458	500	n/a	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (mg/L)	(2017 - 2019)	918	830 - 950	1000	n/a	Runoff/leaching from natural deposits
Turbidity (NTU)	(2017 - 2019)	0.6	0.2 - 1.2	5	n/a	Soil runoff

Table 7 - TREATED DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Sources of Contaminant
Iron (ug/L)	(2014)	110	n/a	300	n/a	Leaching from natural deposits; Industrial wastes

Manganese (ug/L)	(2019)	59	20 - 150	50	n/a	Leaching from natural deposits
Total Dissolved Solids (mg/L)	(2014)	940	n/a	1000	n/a	Runoff/leaching from natural deposits
Turbidity (NTU)	(2014)	ND	n/a	5	n/a	Soil runoff

Table 8 - DETECTION OF UNREGULATED CONTAMINANTS					
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	Notification Level	Typical Sources of Contaminant
Boron (mg/L)	(2017 - 2019)	0.7	0.6 - 0.9	1	Boron exposures resulted in decreased fetal weight (developmental effects) in newborn rats.
Vanadium (mg/L)	(2017 - 2019)	0.003	0.003 - 0.004	0.05	Vanadium exposures resulted in developmental and reproductive effects in rats.

Table 9 - ADDITIONAL DETECTIONS					
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	Notification Level	Typical Sources of Contaminant
Calcium (mg/L)	(2017 - 2019)	136	127 - 142	n/a	n/a
Magnesium (mg/L)	(2017 - 2019)	41	32 - 48	n/a	n/a
pH (units)	(2017 - 2019)	7.8	7.6 - 8.0	n/a	n/a
Alkalinity (mg/L)	(2017 - 2019)	220	210 - 230	n/a	n/a
Aggressiveness Index	(2017 - 2019)	12.7	12.5 - 12.9	n/a	n/a
Langelier Index	(2017 - 2019)	0.8	0.6 - 1.0	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 if 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).

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 the service lines and home plumbing. *San Cayetano Mutual Water* 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>.

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

VIOLATION OF A MCL,MRDL,AL,TT, OR MONITORING AND REPORTING REQUIREMENT				
Violation	Explanation	Duration	Actions Taken To Correct the Violation	Health Effects Language
Total Coliform Bacteria	Near the end of Sept 2019, three of the four wells and one system sample tested positive for total coliform but no E. coli. One routine and two repeat samples again tested positive for total coliform but no E. coli.	End of September, first part of October 2019	A level 1 assessment was completed. Users were notified of the violation. All wells were chlorinated, sat for 12 hrs & flushed. System sample sites were chlorinated & flushed.	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.
Manganese	Well #8 has consistently tested above the MCL.	Past 12 months	We sample all wells quarterly for manganese. We no longer run well 8 alone but blend with the other wells.	Manganese was found at levels that exceed the secondary MCL. The Manganese MCL was set to protect you against unpleasant aesthetic affects such as color, taste, odor and the staining of plumbing fixtures (e.g., tubs and sinks), and clothing while washing. Violating this MCL does not pose a risk to public health.
Odor Threshold at 60 °C	Again this is primarily a problem with well 8 due to high levels of manganese.	Past 12 months	Water is blended with other wells to bring down the mg/L of manganese.	Odor was found at levels that exceed the secondary MCL. The Odor MCL was set to protect you against unpleasant aesthetic affects such as color, taste, odor and the staining of plumbing fixtures (e.g., tubs and sinks), and clothing while washing. Violating this MCL does not pose a risk to public health.

2019 Consumer Confidence Report Drinking Water Assessment Information

Assessment Information

A source water assessment was conducted for the WELL 05 and WELL 07 of the SAN CAYETANO MUTUAL WATER CO water system in March, 2001. A source water assessment was conducted for the WELL 08 of the SAN CAYETANO MUTUAL WATER CO water system in February, 2012. A source water assessment was conducted for the WELL 09 of the SAN CAYETANO MUTUAL WATER CO water system in (MONTH), 2016.

Well 05 - is considered most vulnerable to the following activities not associated with any detected contaminants:
Chemical/petroleum pipelines

Well 07 - is considered most vulnerable to the following activities not associated with any detected contaminants:
Chemical/petroleum pipelines
Septic systems - low density [$<1/\text{acre}$]
Wells - Agricultural/ Irrigation

Well 08 - is considered most vulnerable to the following activities not associated with any detected contaminants:
Chemical/petroleum pipelines
Septic systems - low density [$<1/\text{acre}$]
Wells - Agricultural/ Irrigation

Well 09 - is considered most vulnerable to the following activities not associated with any detected contaminants:
Chemical/petroleum pipelines
Septic systems - low density [$<1/\text{acre}$]
Wells - Agricultural/ Irrigation

Discussion of Vulnerability

There have been no contaminants detected in the water supply, however the source is still considered vulnerable to activities located near the drinking water source. Well 08 was brought online 08/01/11.

Acquiring Information

SWRCB Division of Drinking Water
1180 Eugenia Place
Suite 200
Carpinteria, CA 93013

You may request a summary of the assessment be sent to you by contacting:

Jeff Densmore
District Engineer
805 566 1326