2018 Consumer Confidence Report

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Water System Name: MER	CED ADVENTIST CHUR	CH Repo	ort Date:	5/23/2019		
We test the drinking water qua results of our monitoring for the						ows th
Este informe contiene inform ADVENTIST CHURCH] a [2:	nación muy importante so 222 EAST OLIVE AVE M	obre su agua para b ERCED, CA 95340] p	eber. Fa para asisti	vor de con rlo en españ	nunicarse [M] iol.	ERCEI
Type of water source(s) in use: Name & general location of sou	GROUND WATER					
Drinking Water Source Assessn	nent information:					
Time and place of regularly sch	eduled board meetings for pu	ıblic participation:	NONE			
For more information, contact:	JON CLARK		Phone:	(209) 756	5-9903	
	TERMS USED	IN THIS REPORT		·		
Maximum Contaminant Level a contaminant that is allowed in MCLs are set as close to the economically and technologically are set to protect the odor, taste, water. Maximum Contaminant Level a contaminant in drinking water known or expected risk to health. Environmental Protection Agence Public Health Goal (PHG): The drinking water below which the risk to health. PHGs are set by the MCL is a contaminant in drinking water below which the risk to health. PHGs are set by the maximum contaminant Level.	PHGs (or MCLGs) as is y feasible. Secondary MCLs and appearance of drinking Goal (MCLG): The level of er below which there is no MCLGs are set by the U.S. y (U.S. EPA). He level of a contaminant in the re is no known or expected	Secondary Drinking contaminants that affe water. Contaminants MCL levels. Treatment Technique the level of a contaminants Regulatory Action Lewhich, if exceeded, to water system must follow Variances and Exem MCL or not comply conditions. Level 1 Assessment:	ect taste, o with SDW e (TT): A nant in drin evel (AL): riggers trea low. ptions: St	dor, or appeadors of a required processing water. The concentratment or other ate Board per reatment tech	arance of the diffect the health cess intended to ation of a contaer requirements rmission to exchique under	reduce minant that a seed an certain
Protection Agency. Maximum Residual Disinfects highest level of a disinfectant There is convincing evidence that necessary for control of microbia Maximum Residual Disinfecta The level of a drinking water distribution.	ant Level (MRDL): The allowed in drinking water. t addition of a disinfectant is I contaminants. nt Level Goal (MRDLG):	Level 1 Assessment: system to identify po why total coliform bac Level 2 Assessment: of the water system to possible) why an E. a total coliform bacterismultiple occasions.	tential pro eteria have A Level 2 identify po coli MCL	blems and d been found in assessment is otential probloviolation has	etermine (if pon nour water system is a very detailed ems and determand/occurred and/o	em. I study nine (if or why

ND: not detectable at testing limit

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

ppb: parts per billion or micrograms per liter (µg/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

ppt: parts per trillion or nanograms per liter (ng/L)

pCi/L: picocuries per liter (a measure of radiation)

microbial contaminants.

requirements.

is no known or expected risk to health. MRDLGs do not

reflect the benefits of the use of disinfectants to control

Primary Drinking Water Standards (PDWS): MCLs and

MRDLs for contaminants that affect health along with their

monitoring and reporting requirements, and water treatment

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 –	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)	(In a month)	0	1 positive monthly sample	0	Naturally present in the environment			
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year) 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)	(In the year) 4/1/2016- 12/31/2016	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	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)	9/29/2016	5	0.0132	0	15	0.2	Not Applicable	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	9/29/2016	5	0.575	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

	TABLE :	3 – SAMPLING	RESULTS FOR	SODIUM .	AND HARD	NESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	3/10/2010	22.0	N/A	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	3/10/2010	259	N/A	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4 – DE	TECTION (OF CONTAMIN	ANTS WITH A	<u>PRIMARY</u>	DRINKING	G WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
GROSS ALPHA PARTICLE ACTIVITY (pCi/L)	3/28/2018 6/26/2018 9/19/2018 12/5/2018	6.61	4.78-7.55	15	(0)	Erosion of natural deposits.
URANIUM (pCi/L)	8/22/2013	4.4	N/A	20	0.43	Erosion of natural deposits.
ARSENIC (μg/L)	3/17/2016	N/D	N/A	10	0.004	Erosion of natural deposits; runoff from orchard; glass and electronics production wastes.
BARIUM (mg/L)	3/17/2016	0.38	N/A	1	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
FLUORIDE (mg/L)	3/17/2016	0.10	N/A	2.0	1	Erosion of natural deposits: water additive which promotes strong teeth: discharge from fertilizer and aluminum factories.
NITRATE (mg/L)	2/9/2018 3/28/2018 5/15/2018 9/19/2018 10/24/2018 11/6/2018 12/5/2018	6.62	ND-8.0	10 (as N)	10 (as N)	Runoff and leaching from fertilizer use; leaching from septic tank and sewage; erosion of natural deposits.
TURBIDITY	3/10/2010	0.10	N/A	TT	N/A	Soil runoff
TABLE 5 – DETE	CTION OF	CONTAMINA	NTS WITH A S	ECONDAR	Y DRINKIN	G WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
SPECIFIC CONDUCTANCE (μS/cm)	5/22/2017	510	N/A	1600 μS/cm	NONE	Substances that form ions when in water; seawater influence.
TOTAL DISSOLVED SOLIDS (TDS) (mg/L)	3/10/2010	360	N/A	1000 mg/L	NONE	Runoff/leaching from natural deposits
ZINC (mg/L)	3/10/2010	0.704	N/A	5.0 mg/L	NONE	Runoff/leaching from natural deposits; industrial wastes
CHLORIDE (mg/L)	3/10/2010	13.7	N/A	500 mg/L	NONE	Runoff/leaching from natural deposits; seawater influence
SULFATE (mg/L)	3/10/2010	16.2	N/A	500 mg/L	NONE	Runoff/leaching from natural deposits; industrial wastes
TURBIDITY (Units)	3/10/2010	0.10	N/A	5 Units	NONE	Soil runoff

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

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. [MERCED ADVENTIST CHURCH] 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 (1-800-426-4791) or at http://www.epa.gov/lead.

Secondary standards are in place to establish an acceptable aesthetic quality of the water due to color, taste and odor
Leaching from natural deposits; industrial wastes.
The Nitrate testing has resulted in more than 50% of the MCL standard therefore testing is completed quarterly.
Gross Alpha Particle Activity testing has resulted in more than 50% of the MCL standard therefore testing is completed
quarterly.

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

VIOLATION	OF A MCL, MRDL, AL,	TT, OR MONITORI	NG AND REPORTING REQUI	REMENT			
Violation Explanation Duration Actions Taken to Correct the Violation							

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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 (MCLG) (MCLG) [MRDLG] Typical Source of Contaminant								
E. coli	(In the year)		0	(0)	Human and animal fecal waste			
Enterococci	(In the year)		TT	N/A	Human and animal fecal waste			
Coliphage	(In the year)		ТТ	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						
	SPECIAL NOTICE FOR	R UNCORRECTED SIG	NIFICANT DEFICIENCIES			
	VIOL	ATION OF GROUNDW	ATER TT			
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language		
No Violations						

For Systems Providing Surface Water as a Source of Drinking Water

TABLE 8 - SAMPLING RESULTS SHOW	TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES				
Treatment Technique ^(a) (Type of approved filtration technology used)					
Turbidity Performance Standards (b) (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 – Be less than or equal to NTU in 95% of measurements in a month. 2 – Not exceed NTU for more than eight consecutive hours. 3 – Not exceed NTU at any time.				
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.					
Highest single turbidity measurement during the year					

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Number of violations of any surface water treatment		
requirements	ł	

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

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(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.

Summary Information for Violation of a Surface Water TT

VIOLATION OF A SURFACE WATER TT								
TT Violation Explanation Duration Actions Taken to Correct the Violation								
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Summary Information for Operating Under a Variance or Exemption		
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Summary Information for Federal Revised Total Coliform Rule Level 1 and Level 2 Assessment Requirements

Level 1 or Level 2 Assessment Requirement not Due to an E. coli MCL Violation

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.

During the past year we were required to conduct [INSERT NUMBER OF LEVEL 1 ASSESSMENTS] Level 1 assessment(s). [INSERT NUMBER OF LEVEL 1 ASSESSMENTS] Level 1 assessment(s) were completed. In addition, we were required to take [INSERT NUMBER OF CORRECTIVE ACTIONS] corrective actions and we completed [INSERT NUMBER OF CORRECTIVE ACTIONS] of these actions.

During the past year [INSERT NUMBER OF LEVEL 2 ASSESSMENTS] Level 2 assessments were required to be completed for our water system. [INSERT NUMBER OF LEVEL 2 ASSESSMENTS] Level 2 assessments were

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completed. In addition, we were required to take [<u>INSER</u>] and we completed [<u>INSERT NUMBER OF CORRECTIV</u>]	T NUMBER OF CORRECTIVE ACTIONS of these actions	VE ACTIONS] corrective actions s.
Level 2 Assessment Requireme	ent Due to an <i>E. coli</i> MCL	Violation
E. coli are bacteria whose presence indicates that the water pathogens in these wastes can cause short-term effects, sure They may pose a greater health risk for infants, young child systems. We found E. coli bacteria, indicating the need to When this occurs, we are required to conduct assessment(s) during these assessments.	er may be contaminated with lach as diarrhea, cramps, nause ren, the elderly, and people with look for potential problems	human or animal wastes. Human a, headaches, or other symptoms. th severely-compromised immune in water treatment or distribution.
We were required to complete a Level 2 assessment because required to take [INSERT NUMBER OF CORRECTIVE NUMBER OF CORRECTIVE ACTIONS] of these actions	E ACTIONS corrective action	ater system. In addition, we were ons and we completed [INSERT
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