2018 Consumer Confidence Report

Report Date:

May 28, 2019

Elk Creek Community Services District

results of our monitoring for the period of January 1 to Dece	bre su agua para beber. Favor de comunicarse [<i>Elk Creek</i>
Type of water source(s) in use: Surface Water	
Name & general location of source(s): Stony Gorge Reso	ervoir - open seasonally
Drinking Water Source Assessment information: Lab Re	eports, Monthly Compliance Reports, CA Drinking Water Watch
Data, ECCSD Water Plant Records.	
Time and place of regularly scheduled board meetings for pu	ablic participation: Regular meetings held quarterly, 2nd
Tuesday of the 1st month of the quarter, at the Elk Creek Fir	e Hall, 6 pm.
For more information, contact: Julie Polley	Phone: (707) 272-1129

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of Secondary Drinking Water Standards (SDWS): 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 System Name:

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): 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.

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: Permissions from the State Water Resources Control Board (State Board) 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)

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)

SWS CCR Form Revised February 2019 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 Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law 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)	None	None	1 positive monthly sample	None	Naturally present in the environment				
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	None	None	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	N/A	Human and animal fecal waste				
E. coli (federal Revised Total Coliform Rule)	None	None	(a)	None	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*.

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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)	6/11/18	5	2.9	None	15	0.2	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.

Copper (ppm)	6/11/18	5	0.53	None	1.3	0.3	2	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from
								wood preservatives.

						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)	7/31/14	24	N/A	None	None	Salt present in the water and is generally naturally occurring.			
Hardness (ppm)	7/31/14	166	N/A	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring.			
TABLE 4 – DET	TECTION C	F CONTAMIN	NANTS WITH A	PRIMARY	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 (pCi/L)	4/8/15	0.22	N/A	15	None	Erosion of natural deposits.			
Aluminum (ppm)	7/31/14	0.27	N/A	1	0.6	Erosion of natural deposits; residen from some surface water treatment processes.			
Arsenic (ppb)	7/31/14	8	N/A	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes.			
Asbestos (million fibers/L or MFL)	7/5/18	2.6	N/A	7	7	Internal corrosion of asbestos cement water mains; erosion of natural deposits.			
Barium (ppm)	7/31/14	0.111	N/A	1	2	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits.			
Chromium [Total] (ppb)	7/31/14	2	N/A	50	100	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits.			
Nickle (ppb)	7/31/14	3	N/A	100	12	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits.			
Nitrate (ppm)	8/10/18	ND	N/A	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits.			
Perchlorate (ppb)	8/10/18	ND	N/A	6	1	Perchlorate is an inorganic chemical used in solid rocket propellant, fireworks, explosives, flares, matches, and in a variety of industries. It usually gets into drinking water as a result of environmental contamination from historic aeorspace or other industrial operations that used or use, store, or dispose of perchlorate and its salts.			

1,2,3 TCP (ppb)	2018	ND	ND	0.005	0.0007	Discharge from industrial and agricultural chemical factories; leaching from hazardous waste sites; used as cleaning and degreasing agent; byproduct during the production of other compounds and pesticides.
Total Trihalomethanes (TTHMs) (ppb)	2018	73.5	22-74	80	none	Byproduct of drinking water disinfection.
Sum of 5 Haloacetic Acids (HAA5) (ppb)	2018	13	4-19	60	none	Byproducts of drinking water disinfection.
Chlorine (hrs)	2018	0.2	N/A	4	none	Used in disinfection process.

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Color (Units)	7/5/18	5	N/A	15	N/A	Naturally occurring organic materials.
Odor (TON)	7/5/18	2	N/A	3	N/A	Naturally occurring organic materials.
Iron (ppb)	7/5/18	290	NA	300	N/A	Leaching from natureal deposits; industrial waste.
Manganese (ppb)	2018	385	30-1090	50	N/A	Leaching from natural deposits.
Total Disolved Solids (ppm)	7/31/14	210	N/A	1000	N/A	Runoff/leaching from natural deposits.
Chloride (ppm)	7/31/14	27	N/A	500	N/A	Runoff/leaching from natural deposits; seawater influence.
Sulfate (ppm)	7/31/14	6.8	N/A	500	N/A	Runoff/leaching from natural deposits; industrial wastes.

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
Chomium VI (ppb)	8/17/17	ND	N/A	N/A	Naturally occuring inorganic material; industrial waste. Known to cause cancer when ingested or inhaled in sufficient amounts.

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: <u>If present</u>, 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. [*Elk Creek Community Services District*] 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 (1-800-426-4791) or at http://www.epa.gov/lead.

Arsenic: While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. The U.S. Environmental Protection Agency continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

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	Duration Explanation Duration Actions Taken to Correct the Violation Health Effects Langua							
2018-9321011 Failure to Monitor 1,2,3 TCP	Missed 1,2,3 Trichloropropane testing due date of 3/31/2018.	10 weeks	Performed test once became aware on 6/15/18 and quarterly thereafter.	Health effects unknown.				

New mandated testing, notification error on part of ECCSD. Tested every 3 months through rest of year 2018 to ensure compliance; no 1,2,3 TCP detected in any test.

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			0	(0)	Human and animal fecal waste			
Enterococci			TT	N/A	Human and animal fecal waste			
Coliphage			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								
N/A-ECCSD does not	N/A-ECCSD does not use ground water as a source supply.							
;	SPECIAL NOTICE FOR	UNCORRECTED SIGNI	FICANT DEFICIENCIES	S				
N/A								
VIOLATION OF GROUNDWATER TT								
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language				
N/A								

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)	2 Trident contact clarification/filtratration units			
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 .3 NTU in 95% of measurements in a month. 2 – Not exceed N/A NTU for more than eight consecutive hours. 3 – Not exceed 1.0 NTU at any time.			
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100%			
Highest single turbidity measurement during the year	0.487			
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.

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	Health Effects Language	
none					

Summary Information for Operating Under a Variance or Exemption

N/A

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 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.

N/A

Level 2 Assessment Requirement Due to an E. coli MCL Violation

E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely-compromised immune systems. We found *E. coli* bacteria, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) identify problems and to correct any problems that were found during these assessments.

We were required to complete a Level 2 assessment because we found *E. coli* in our water system. 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.

N/A