## 2018 Consumer Confidence Report

Water System Name: California Correctional Institution - Tehachapi Report Date: May 7, 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 to December 31, 2018 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse [Enter Water System's Name Here] a [Enter Water System's Address or Phone Number Here] para asistirlo en español.

这份报告含有关于您的饮用水的重要讯息。请用以下地址和电话联系 [Enter Water System's Name Here]以获得中文的帮助:[Enter Water System's Address Here][Enter Water System's Phone Number Here]

Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa [Enter Water System's Name and Address Here] o tumawag sa [Enter Water System's Phone Number Here] para matulungan sa wikang Tagalog.

Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ [Enter Water System's Name Here] tại [Enter Water System's Address or Phone Number Here] để được hỗ trợ giúp bằng tiếng Việt.

Tsab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau [Enter Water System's Name Here] ntawm [Enter Water System's Address or Phone Number Here] rau kev pab hauv lus Askiv.

Type of water source(s) in use: Well:	s (Groundwater)	
Name & general location of source(s):	Well "A", Well "B" & Well #12	
	24900 Hwy 202 Tehachapi, CA 9356	51
Drinking Water Source Assessment inform	mation: CCI Wells are most vulner	able to agriculture and wastewater runoff.
Time and place of regularly scheduled bo	ard meetings for public participation:	Not applicable
For more information, contact: John E	Buoni CPS (A)	Phone: (661) 822-4402 x3790

### 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.

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**: 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)

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)	(In a month) (4)	(1)	I positive monthly sample	0	Naturally present in the environment	
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year)	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. colt</i> positive		Human and animal fecal waste	
E. coli (federal Revised Total Coliform Rule)	(In the year)	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 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (mg/L)					15	0.2		Internal corrosion of household water plumbing
See attachment*								systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (mg/L)				·	1.3	0.3	Not applicable	Internal corrosion of household plumbing
See attachment*								systems; erosion of natural deposits; leaching from wood preservatives

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	TABLE 3	B – SAMPLING I	RESULTS FOR	SODIUM A	AND HARDI	NESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm) See attachment*				None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm) See attachment*				None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4 – DET	ECTION (	OF CONTAMINA	ANTS 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
See attachment*			35+304			
TABLE 5 – DETE	CTION OF	CONTAMINAN	NTS WITH A <u>S</u>	ECONDAR	<u>Y</u> DRINKIN	G WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
See attachment*						
	TABLE	6 – DETECTION	OF UNREGU	LATED CO	  NTAMINA	NTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notifica	tion Level	Health Effects Language
See attachment*						

## 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. Immunocompromised 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. California Correctional Institution - Tehachapi 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 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.

# 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 Maximum Contamination Level	4 of 10 samples tested positive for total coliform bacteria	For the month of July 2018	As required resamples were taken and a new batch of sodium hypochlorite has been put into place	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more than allowed and this was a warning of potential problems.		

# 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  Detections  Detections  Sample Dates  MCL (MCLG) (MCLG) [MRDLG]  Typical Source of Contaminant							
E. coli	(In the year)	Monthly	0	(0)	Human and animal fecal waste		
Enterococci	(In the year) 0	Monthly	ТТ	N/A	Human and animal fecal waste		
Coliphage	(In the year) 0	Monthly	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 INDICATO	PR-POSITIVE GROUNDWATER SOURCE SAMPLE
SPECIAL NOTICE FOR UNCOR	RECTED SIGNIFICANT DEFICIENCIES

	VIOLA	TION OF GROUNDY	VATER 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 <sup>(a)</sup> (Type of approved filtration technology used)	N/A			
Turbidity Performance Standards <sup>(b)</sup> (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				
Number of violations of any surface water treatment requirements				

- (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		
N/A						
				Commence of the Commence of th		

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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 oth harmful, waterborne pathogens may be present or that a potential pathway exists through which contamina the drinking water distribution system. We found coliforms indicating the need to look for potential proteratment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems any problems that were found during these assessments.	tion may enter plems in water
During the past year we were required to conduct [1] Level 1 assessment(s). [1] Level 1 assessment(s) we land addition, we were required to take [3] corrective actions and we completed [3] of these actions.	ere completed.
During the past year [0] Level 2 assessments were required to be completed for our water system. assessments were completed. In addition, we were required to take [0] corrective actions and we complete actions.	
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 we pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other they may pose a greater health risk for infants, young children, the elderly, and people with severely immune systems. We found E. coli bacteria, indicating the need to look for potential problems in water distribution. When this occurs, we are required to conduct assessment(s) identify problems and to correct that were found during these assessments.	ner symptomscompromised r treatment or
We were required to complete a Level 2 assessment because we found <i>E. coli</i> in our water system. In add required to take [0] corrective actions and we completed [0] of these actions.	ition, we were

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Table 1 - Sampling Showing The Detection of Coliforn Bacteria	wing The D	Detection o	f Coliform	Sacteria					AD WGPS
Microbiological Contaminants	nts High	Highest # of Detections	tions No. of	No. of Months in Violation	olation	MCL		MCLG	Typical Source of Bacteria
Total Coliform Bacteria		In a Month =	4	<b>~</b>		More than 1 sample in a month with a detection	ample in a detection	0	Naturally Present in Environment
Fecal Coliform or E. Coli		In a Year =	0	0		A routine sample and a repeat sample detect total coliform & either sample	tple and a detect total ner sample	0	Human and animal fecal waste
						also detects f	also detects fecal coliform or E. coli	r E. coli	
Disinfectant			Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Sou	Typical Source of Contaminant
Chlorine (mg/L)			DAILY	(AVG)	0.1-2.0	4.0	N/A	Drinking water	Drinking water disinfectant added for treatment
Disinfection By-products									
Total Trihalomethanes (TTHM) at Tower #7 & #11	at Tower #7 &	: #11	9/4/2018	.0078/.0031	<0.002/.0075	80	ΝΑ	By-Product	By-Product of drinking water disinfection
	Tower #16		9/4/2018	0.0011					
Total Haloacetic Acids (HAA5) at Tower #7 &	at Tower #7 &	#11	9/4/2018	<0.002/ND	ND/<.002	09	N/A	By-Product	By-Product of drinking water disinfection
	Tower #16		9/4/2018	<0.002					
Table 2 - Sampling Results Showing The Detection of Lead & Copper	ults Showir	na The Def	ection of Le	ad & Copr	Jer				
Lead & Copper	# of samples	6	90th percentile	9	Sites exceeding (AL)	ling (AL)	AL	MCLG	Tvoical Source of Contamination
	collected		level detected	-		· ·			
Lead (mg/L) 2018							0.015	1.3	Internal corrosion of household water
March	<b>4 6</b>		0.23 mg/L		ഹ				plumbing systems; erosion of natural
September	40		S		33				deposits; leaching from wood preservatives
Copper (mg/L) 2017							£.	0	Internal corrosion of household water
March	40		0.29 mg/L		0	_			plumbing systems; discharges from industrial
September	40		0.31 mg/L		0				manufacturers erosion of natural deposits
Toble 9 CM-11 II A 117 C		L - 1							
lable 3 - [Well A ] Sampling Results For Sodium and Hardness	npling Kest	IIIS FOR SO	dium and H	ardness					
Chemical or Constituent	Sample Date	Level	Range of Detections	MCL	PHG	MCLG	Typical Source of Contaminant	ce of Conta	minant
Sodium (mg/L)	7/29/2016	24	n/a	n/a	n/a	n/a	Generally for	und in grour	Generally found in ground & surface water
Hardness (total)	7/29/2017	240	n/a	n/a	n/a	n/a	Generally for	und in grour	Generally found in ground & surface water
as CACO3 (mg/L)									
Table 4 - Well "A" Detection of Contamination With A Primary Drinking Standard	ction of Cor	ntamination	1 With A Pri	mary Drin	king Stand	ard			
Chemical or Constituent	Sample Date	Level	Range of Detections	MCL	PHG	MCLG	Typical Source of Contaminant	ce of Conta	minant
Radioactive Contaminants									The state of the s
Gross Alpha	7/29/2016	1.69	n/a	15pCi/L	NONE	0	Erosion of natural deposits	atural depos	iits
Activity (point)									
Aluminum (ug/L)	7/29/2016	<50	n/a	1000	009	0	Erosion of natura	al deposits: resi	Erosion of natural deposits: residue from some surface water treatment
Arsenic (ug/L)	7/29/2016	<2.0	n/a	10	0.004	0	Erosion of natura	al deposits, runo	Erosion of natural deposits; runoff from orchards; glass and electronics
							production wastes	38	

Table 4 continued							
Barium (ug/L)	7/29/2016	<100	n/a	1000	2	2	Dishargers of oil drilling wastes and from metal refineries;
							erosion of natural deposits
Chromium (ug/L)	7/29/2016	5.8	n/a	50	0	100	Disharge from steel and pulp mills and chrome plating;
							erosion of natural deposits
Fluoride (mg/L)	7/29/2016	0.4	n/a	2	1	4	Erosion of natural deposits; water additive which promotes
							strong teeth; discharge from fertilizer and aluminum factories
Nickel (ug/L)	7/29/2016	<10	n/a	100	12	0	Erosion of natural deposits; discharge from metal factories
Nitrate (as N)	8/15/2018	4.8/3.5/2.3	2.5-3.9	10 as N	10 as N	10	Runoff and leaching from fertilizer use; leaching from septic
Well's "A", "B" & #12							tanks and sewage; erosion of natural deposits
Perchlorate (ug/L)	8/15/2019	<4.0	<4.0	9	0	0	
Well's "A", "B" & #12							
Selenium (ug/L)	7/29/2016	<5.0	n/a	20	30	20	Discharge from petroleum, glass and metal rfineries; erosion
							of natural deposits; discharge from mines and chemical
							manufacturers; runoff from livestock lots (feed additives)
Table 5 - Well "A" Detection of Contamination	tion of Cor	ıtamination		With A Secondary Drinking Water Standard	inking Wat	er Standa	rd
Chemical or Constituent	Sample	Level	Range of	MCL	PHG	MCLG	Typical Source of Contaminant
	Date	Defected	Detections				
Aluminum (ug/L)	7/29/2016	<50	n/a	1000	009	0	Erosion of natural deposits, residue from some surface water treatment
Copper (ug/L)	7/29/2016	<50	n/a	1300	300	1300	Internal corrosion of household water plumbing systems;
							discharges from industrial manufacturers. Erosion of natural
		3					deposits
Hexavalent Chromium	7/29/2016	5.7	n/a	10	0.02	n/a	Discharges from electroplating factories, leather tanneries, wood
(ug/L)							presvervation, chemical synthesis, refractory production, and
							textile manufacturing facilities, erosion of natural deposits
Threshhold Odor	7/29/2016	<1.0	n/a	3 units	0	0	Naturally-occuring organic materials
Turbidity (NTU)	7/29/2016	<0.10	n/a	5 NTU	0	0	Soil runoff
Zinc (ug/L)	7/29/2016	<50	n/a	5000	0	0	Runoff/leaching from natural deposits; industrial wastes
Specific Conductance	7/29/2016	640	n/a	1600 umhos/cm	0	0	Erosion of natural deposits; seawater influence
Total Dissolved Solids	7/29/2016		n/a	0	0	0	Runoff/leaching from natural deposits
Chloride (mg/L)	7/29/2016	27	n/a	500 mg/L	0	0	Runoff/leaching from natural deposits; seawater influence
Sulfate as SO4 (mg/L)	7/29/2016	74	n/a	200 ppm	0	0	Runoff/leaching from natural deposits; industrial wastes