

California Department of Forestry & Fire Protection

2021 ANNUAL WATER QUALITY REPORT OR CCC

BASELINE CONSERVATION CAMP

2021 Consumer Confidence Report

Water System Name:	Baseline Conservation Camp CC #30	Report Date:	May 7, 2022
0	ater quality for many constituents as required by ag for the period of January 1 to December 31, 20	v	
Este informe contiene bien.	información muy importante sobre su agua pot	able. Tradúzcalo (hable con alguien que lo entienda
Type of water source(s)) in use: Surface Water		
Name & general location	on of source(s): Tulloch Lake		
Drinking Water Source	Assessment information: DHS 2001 Assess	ment Report. This	source water is considered most
vulnerable to the follow	ving activities not associated with any detected co	ntaminates: Chemic	eal, Petroleum, Processing, Storage
Time and place of regu	larly scheduled board meetings for public particip	ation: Baseli	ne Camp
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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.

Brian West

For more information, contact:

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.

Phone:

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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) One	One	1 positive monthly sample	0	Naturally present in the environment		
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year) 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		Human and animal fecal waste		
E. coli (federal Revised Total Coliform Rule)	(In the year) None	None	(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 – 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)	09/02/2020	5	10	0	15	0.2	None	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	09/02/2020	5	0.8	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

	TABLE 3	– 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)	12/23/16	3.0		None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm) by Calculation of Mg & Ca	7/01/13	22		None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally
TABLE 4 DEC	ECELONIO	E CONTAINE	A NATIONAL A	DDIM (A DA)		occurring
TABLE 4 – DET	ECTION O	F CONTAMINA	ANTS WITH A	PRIMARY		WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Arsenic(µg/L)	12/15/21	ND		10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Nickel (µg/L)	12/15/21	13		100	12	Some people who drink water containing nickel in excess of the MCL over many years may experience liver and heart effects.
Gross Alpha Particle Activity(pCi/L)	12/28/16	ND		15	0	Erosion of natural deposits
*TTHMs [Total Trihalomethanes] (µg/L)	Quarterly 2021	35.7	3.4 – 60.4	80	N/A	Byproduct of drinking water disinfection
*HAA5 [Sum of 5 Haloacetic Acids] (µg/L)	Quarterly 2021	39.2	29.0 – 42.4	60	N/A	Byproduct of drinking water disinfection
Chlorine (mg/L)	2021	2.0	0.11 – 5.2	[MRDL = 4.0 (as Cl ₂)]	[MRDLG = 4 (as Cl ₂)]	Byproduct of drinking water disinfection
Control of DBP Precursors (TOC mg/L) (Sampled monthly)	2021	Average = 1.24	ND-1.77	TT	N/A	Various natural and manmade sources
Nitrate (mg/L)	12/15/21	ND		10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
TABLE 5 – DETE	CTION OF	CONTAMINAN	NTS WITH A <u>S</u>	ECONDAR	<u>Y</u> DRINKIN	IG WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Aluminum (ug/L)	06/14/18	150		300	N/A	Leaching from natural deposits; industrial wastes
Iron (ppb)	06/14/18	ND		300	N/A	Leaching from natural deposits; industrial wastes
Chloride (mg/L)	06/12/18	ND		500	N/A	Runoff/leaching from natural deposits; seawater influence
Color (Units)	12/15/2021	48		15	15	
Sulfate (mg/L)	06/12/18	2.7		500	N/A	Runoff/leaching from natural deposits; seawater influence
Specific Conductance (μS/cm)	02/01/11	72		1600	N/A	Substances that form ions when in water; seawater influence
Total Dissolved Solids [TDS] (mg/L)	03/05/2020	63		1000	N/A	Runoff/leaching from natural deposits
Turbidity (NTU)	12/15/2021	5.2		5	N/A	Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

TABLE 5 – DETECTION OF CONTAMINANTS WITH A <u>SECONDARY</u> DRINKING WATER STANDARD (CONT.)							
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant	
Alkalinity (mg/L)	Sampled Monthly 2020		24 – 31				
	TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS						
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level Health Effects La		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. **Baseline Conservation Camp CC #30** 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.

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

VIOLATION OF A MONITORING AND REPORTING REQUIREMENTS						
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language		
TTHMs [Total	As of January 10, 2020,			Some people who		
Trihalomethanes] (a)	the State Water Board	2019 Quarterly	2020 Quarterly	drink water containing		
(µg/L)	has not received the	Sampling results were	Sampling for TTHM's	trihalomethanes in		
	2019 quarterly analysis	not submitted. Citation	and HAA5's has been	excess of the MCL		
&	results reporting	No.	initiated	over many years may		
	requirements. Failure to	03-11-20C-003 issued		experience liver,		
HAA5 [Sum of 5	Monitor for Disinfection	by the State Water		kidney, or central		
Haloacetic Acids] (b)	Byproducts for 2019	Board		nervous system		
(µg/L)				problems, and may		
				have an increased risk		
				of getting cancer.		

Total Coliform	Presence of Coliforms	Presence of Total	One Level 1	Coliforms are bacteria
		Coliform on	Assessment Completed	that are naturally present
		07/07/2021	on 07/12/2021	in the environment and
		07,07,2021	011 01/12/2021	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.

⁽a) Sum of Four Regulated THMs, i.e. Chloroform, Bromodichloromethane, Dibromochloromethane, and Bromoform

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)	MULTI -MEDIA FILTER				
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 <u>0.3</u> NTU in 95% of measurements in a month. 2 – Not exceed <u>0.3</u> NTU for more than eight consecutive hours. 3 – Not exceed <u>0.3</u> NTU at any time.				
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	Throughout the Year 2021				
Highest single turbidity measurement during the year was in October 2021	7.30 NTU Raw				
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) Sum of Five Regulated HAA5s, i.e. Bromochloroacetic Acid, Bromodichloroacetic Acid, Dibromoacetic Acid, Dibromoacetic Acid, Monobromoacetic Acid, and Tribromoacetic Acid

⁽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				
During the past year, failed to conduct the required assessment of Total Coliform.	Repeat samples were not collected during the July 7, 2021 detection of the presence of total coliform bacteria.	July 2021 through September 15, 2021	Level 1 Assessment was conducted on September 15, 2021and found that the sample tap was dirty and/or incorrect swabbing when the sample was collected.	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.				

Summary Information for Operating Under a Variance or Exemption

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 Level 1 assessment but failed to conduct a repeat sample after the presence of total coliform in July 2021. Level 1 assessment is a study of the water system to identify potential and determine (if possible) why total coliform bacteria have been found in our water that was completed on September 15, 2021. In addition, we were required to take corrective actions and found that the sample tap was dirty and/or incorrect swabbing when the sample was collected.

During the past year <u>none</u> of the Level 2 assessments were required to be completed for our water system. <u>None</u> of the Level 2 assessments were completed. In addition, we were <u>not</u> required to take corrective actions and we completed <u>none</u> of these 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 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 <u>not</u> required to complete a Level 2 assessment because we found <u>no</u> *E. coli* in our water system. In addition, we were **not** required to take corrective actions and we completed **none** of these actions.

Report prepared 05-07-2022 by Alpha Analytical Laboratories, Inc., using *CCR Guidance for Water Suppliers* available at, http://www.waterboards.ca.gov/drinking_water/cCR.html, employing due diligence with instructions given. Data contained in this report are based on the analytical results generated by Alpha Analytical Laboratories and its subcontract laboratories.