2018 Consumer Confidence Report

Water System Name:	Sierra Outdoor School	Report Date:	March 5, 2019
We test the drinking results of our monitor	water quality for many constituents as required by ing for the period of January 1 to December 31, 201	state and federal 8 and may includ	regulations. This report shows the
Type of water source(s		0 * 1 € 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Name & general location	on of source(s): Well No. 1 (001 Standby) No.	2 (003 Main)	
Drinking Water Source	Assessment information:	and the same of th	
detected containmants i	er 2001, the source is considered most vulnerable to in the water supply; Wells-Water Supply. Septic Sys available or you may request a summary by contact	tems-I ow Densit	v (<100mg) A commentation
Time and place of regu	larly scheduled board meetings for public participat	ion: NA	
For more information,	contact: Steve Smith	Phone	(200) 522 2601

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. 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.

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Phone:

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: State Board permission 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 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.

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)	0 0		1 positive monthly sample	0	Naturally present in the environment	
Fecal Coliform or E. coli (state Total Coliform Rule)	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		Human and animal feca waste	
E. coli (federal Revised Total Coliform Rule)	0	0	(a)	0	Human and animal feca 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	- SAMPL	ING RESU	LTS SHOW	ING THE D	ETECT	TION O	F 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
Lead (ppb)	8-2016	5	3.1	0	15	0.2	NA	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	8-2016	5	0.26	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2011	5.85	4.8-6.9	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2011	71	64-77	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Free Chlorine Residual (ppm) as Cl ₂	2018	0.6	0.4-0.8	4	4	Disinfection additive for water treatment
Nitrate @ N (ppm)	12-2018	ND	NA	10	10	Runoff/leaching from fertilizer use leaching from septic tanks and sewage; erosion of natural deposits
Total Trihalomethanes (ppb)	8/2017	3.45	NA	80	NA	By-product of drinking water disinfection
Haloacetic Acids (ppb)	8/2017	2.15	NA	60	NA	By-product of drinking water disinfection
Dichloromethane (ppb)	12/2017	4.74	NA	5	0.5	Discharge from industrial chemical factories; primary component of some fumigants
MTBE (ppb)	12/2017	7.76	NA	13	13	Leaking underground storage tanks discharge from petroleum and chemical factories
TABLE 5 - DET	ECTION OF	CONTAMINA	NTS WITH A S	ECONDAR	Y DRINKIN	G WATER STANDARD
Chemical or Constituent	1			The state of the s	CONTRACTOR OF STREET	
(and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
(and reporting units) Manganese (ppd)		Level Detected		SMCL 50		Typical Source of Contaminant Leaching from natural deposits
Manganese (ppd) Turbidity	Date		Detections		(MCLG)	
Manganese (ppd) Turbidity Total Dissolved Solids (ppm)	12/2017 2011 2011	35.5	Detections NA	50	(MCLG)	Leaching from natural deposits Soil runoff Runoff/Leaching from natural
Manganese (ppd) Turbidity Total Dissolved Solids (ppm) Specific Conductance (micromhos)	Date 12/2017 2011 2011 2011	35.5	NA 0.12-2.9	50	(MCLG) NA NA	Leaching from natural deposits Soil runoff Runoff/Leaching from natural deposits
Manganese (ppd) Turbidity Total Dissolved Solids (ppm) Specific Conductance (micromhos) Chloride (ppm	Date 12/2017 2011 2011 2011 2011	35.5 1.5 110 176	NA 0.12-2.9 102-118 166-185 2-2	50 5 1000	NA NA NA	Leaching from natural deposits Soil runoff Runoff/Leaching from natural deposits Substances that form ions in water;
Manganese (ppd) Turbidity Total Dissolved Solids (ppm) Specific Conductance (micromhos)	Date 12/2017 2011 2011 2011 2011 2011	35.5 1.5 110 176 2	Detections NA 0.12-2.9 102-118 166-185 2-2 7-14	50 5 1000 1600 500	NA NA NA NA NA NA NA NA	Leaching from natural deposits Soil runoff Runoff/Leaching from natural deposits Substances that form ions in water; seawater influence Runoff/Leaching from natural deposits; industrial wastes Runoff/Leaching from natural deposits; industrial wastes
Manganese (ppd) Turbidity Total Dissolved Solids (ppm) Specific Conductance (micromhos) Chloride (ppm	Date 12/2017 2011 2011 2011 2011 2011	35.5 1.5 110 176 2	NA 0.12-2.9 102-118 166-185 2-2	50 5 1000 1600 500	NA NA NA NA NA NA NA NA	Leaching from natural deposits Soil runoff Runoff/Leaching from natural deposits Substances that form ions in water; seawater influence Runoff/Leaching from natural deposits; industrial wastes Runoff/Leaching from natural deposits; industrial wastes
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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. Sierra Outdoor School 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.

For Water Systems Providing Groundwater as a Source of Drinking Water

FECAI	TABLE LINDICATOR-	7 – SAMPLING POSITIVE GR	RESULTS OUNDWA	SHOWING TER SOUR	CE 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	(0)	Human and animal fecal waste
Enterococci	0		TT	N/A	Human and animal fecal waste
Coliphage	0		TT	N/A	Human and animal fecal waste

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 not required to conduct Level 1 assessment(s). During the past year Level 2 assessments were not required to be completed for our water system.

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 not required to complete a Level 2 assessment because we did not find E. coli in our water system.