2022 Consumer Confidence Report

Water System Name:	Sierra Outdo	or School-5500171	Report Date:	February 16, 2022
We test the drinking we results of our monitoring	ter quality for t g for the period	many constituents as required by s of January 1 to December 31, 2022	tate and federal i and may include	regulations. This report shows the earlier monitoring data.
Type of water source(s)	in use: Gro	oundwater		
Name & general location	on of source(s):	Well No. 1 (001 Standby) Well	l No. 2 (003Main)	
Systems-Low Density (ies not associate <1 Acre) A copy	Completed in Septer ed with any detected contaminants is of the complete assessment is available with the complete with the complete assessment is available with the complete assessment in the complete with the compl	n the water supply	rce is considered most vulnerable : Wells-Water Supply, Septic request a summary by contacting
		poard meetings for public participat	tion: N/A	
For more information,	contact: Stev	re Smith	Phone:	(209) 532-3691

TERMS USED IN THIS REPORT

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.

Maximum Contaminant Level (MCL): The highest level of Secondary Drinking Water Standards (SDWS): MCLs for a contaminant that is allowed in drinking water. Primary contaminants that affect taste, odor, or appearance of the drinking MCLs are set as close to the PHGs (or MCLGs) as is 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, 6, ,7 and 8 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			
E. coli (state 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 – 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)	2022	5	10.3	0	15	0.2		Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits	
Copper (ppm)	2022	5	.702	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 HARDNESS							
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	

TABLE 4 – DETI	ECTION O	F CONTAMINA	NTS WITH A	PRIMARY	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
Free Chlorine Residual (ppm) as Cl ₂	2022	.98	.4-1.98	4	4	Disinfection additive for water treatment
Nitrate @ N (ppm)	2022	ND	NA	10	10	Runoff/leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Total Trihalomethaness (ppb)	2021	5.6	NA	80	NA	By-product of drinking water disinfection
Haloacetic Acids (ppb)	2021	5.2	NA	60	NA	By-product of drinking water disinfection
Dichloromethane (ppb)	2017	4.74	NA	5	0.5	Discharge from industrial chemical factories; primary component of some fumigants
MTBE (ppb)	2017	7.76	NA	13	13	Leaking underground storage tanks; discharge from petroleum and chemical factories
Fluoride (ppb)	2021	ND	NA	2	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Barium (ppm)	2020	56	NA	1000	2000	Discharge o oil drilling wastes and from metal refineries; erosion of natural deposits
Chromium (ppb)	2020	13	NA	50	100	Discharge from steel and pulp mills and chrome plating, erosion of natural deposits
Nickel (ppb)	2020	4.2	NA	100	12	Erosion of natural deposits; discharge from metal factories
TABLE 5 – DETE	CTION OF	CONTAMINA	NTS WITH A S	ECONDAR	Y DRINKIN	IG WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Turbidity	2011	1.5	0.12-2.9	5	NA	Soil runoff
Total Dissolved Solids (ppm)	2011	110	102-118	1000	NA	Runoff/leaching from natural deposits
Specific Conductance (micromhos)	2011	176	166-185	1600	NA	Substances that form ions in water; seawater influence
Chloride (ppm)	2011	2	2-2	500	NA	Runoff/leaching from natural deposits; industrial wastes
Aluminum (ppm)	2020	17.5	NA	1	.6	Erosion of natural deposits; residue from some surface water treatment processes
Silver (ppb)	2020	3.1	NA	100	NA	Industrial discharge
Sulfate (ppm)	2011	11	7-14	500	NA	Runoff/leaching from natural deposits; industrial wastes
			3.75	300	NA	Leaching from natural deposits;
Iron (ppb)	2022	ND	ND	300		industrial wastes
Iron (ppb) Manganese (ppb)	2022	ND 54*	ND-161	50	NA	industrial wastes Leaching from natural deposits
Manganese (ppb)	2022	54*	ND-161 2020-5500	5000	NA NA	Leaching from natural deposits Runoff/leaching from natural deposits; industrial wastes
Manganese (ppb)	2022	54* 3755	ND-161 2020-5500	50 5000 LATED C	NA NA	Leaching from natural deposits Runoff/leaching from natural deposits; industrial wastes

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

Manganese was found at levels that exceed the secondary MCL of 50µg/L. The MCL was set to
protect you agains unpleasant aesthetic effects (e.g., color, taste and odor) and staining of
plumbing fixtures (e.g., tusinks) and clothing while washing. The high level is due to leaching
from natural deposits.

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). 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 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.

For Water Systems Providing Groundwater as a Source of Drinking Water

TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLES							
Violation Explanation Duration Actions Taken to Correct Violation Health Effects Language							
NONE							

TABLE 8 – 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	(In the year)	2022	0	(0)	Human and animal fecal waste			
Enterococci	(In the year)	2022	TT	N/A	Human and animal fecal waste			
Coliphage	(In the year)	2022	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 or Level 2 assessments.