2023 CONSUMER CONFIDENCE REPORT

Water System Name: Napa Berryessa Resort Improvement District (NBRID) Report Date: June 25, 2024

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, 2023 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Napa Berryessa Resort Improvement District a 707-253-4351 para asistirlo en español.

Type of water source(s) in use:

Surface Water, Lake

Name & general location of source(s):

Lake Berryessa, at the NBRID treatment facility

Drinking Water Source Assessment information:

The Napa Berryessa Resort Improvement District monitors for contaminants in your drinking water according to Federal and State laws. The tables that follow show the results of our monitoring for the period January 1st to December 31st, 2023. Source water assessments are performed on a periodic basis by the State Water Resources Control Board, Division of Drinking Water Programs as part of the Drinking Water Source Assessment Program (DWSAP). Finished water assessments are also performed periodically. Copies of assessments are available at the NBRID administration office in downtown Napa.

All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It is important to remember that the presence of these contaminants does not necessarily pose a health risk.

A source assessment for the District has not been completed; however, such assessments have been completed for other Districts surrounding Lake Berryessa. We believe that when an assessment is done for your system, the results will be identical to the assessments already completed for similar systems on the lake. A Watershed Sanitary Survey was completed in 2018. A copy of the Survey may be obtained by calling the contact listed below.

According to those vulnerability assessments, your water source is most vulnerable to contamination from boats and personal watercraft, confirmed leaking underground fuel storage tanks, known contaminant plumes, historic and active gas stations, wastewater treatment plants, historic and active mining operations, and animal feeding operations.

Time and place of regularly scheduled board meetings for public participation:

The Napa County Board of Supervisors functions as the Governing Board of your Resort Improvement District. Regular meetings are held as needed, typically on Tuesdays when the Board of Supervisors is in session.

Should any member of the community wish to become more involved with District issues, or wish to receive regular updates on District issues, please contact the main office at 707-253-4351 to be directed to the appropriate staff person.

For more information, contact:

Annamaria Martinez, Assistant Engineer Annamaria.martinez@countyofnapa.org

Phone: (707) 259-8378

TERMS USED IN THIS REPORT

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.

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).

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.

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.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

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.

Variances and Exemptions: State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter ($\mu g/L$) **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)

Sources of Drinking Water and Contaminants that May Be Present in Source Water

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.

Regulation of Drinking Water and Bottled Water Quality

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.

About Your Drinking Water Quality and the Detection of Drinking Water Contaminants

Tables 1, 2, 3, 4, 5, 6, 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.

TABI	LE 1	l – SAMPLING F	RESULTS SHOWI	NG THE D	ETECTION	OF COLIF	ORM BA	CTERIA AND	
THE TOTAL COLIFORM MCL BETWEEN JANUARY 1, 2023 AND JUNE 30, 2023									
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Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (state Total Coliform Rule)	(In a mo.) 0	0	1 positive monthly sample (a)	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year) 0	0	0	0	Human and animal fecal waste
E. coli (federal Revised Total Coliform Rule)	(In the year) 0	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 (TRIENNIAL)

Lead and Copper	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 (ppm)	7/22/2023 - 8/29/2023	12	Non- Detect	0	0.015	0.2	Not applicable	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	7/22/2023 - 8/29/2023	12	0.269	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	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant		
Hardness (ppm)	7/6/2023	164		none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring		
Sodium (ppm)	7/6/2023	9.2		none	none	Salt present in the water and is generally naturally occurring		
TABLE 4	- DETECTION O	F CONTAMIN	ANTS WITH A	A <u>PRIMARY</u> I	ORINKING W	ATER STANDARD		
Chemical or Constituent	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant		
Aluminum (ppb)	7/6/2023	ND		1000	600	Erosion of natural deposits; residue from some surface water treatment processes		
Arsenic (ppb)	7/6/2023	ND		10	0.0004	Erosion of natural deposits; runoff from orchards		
Chromium (ppb)	7/6/2023	ND		50	1.0	Erosion of natural deposits		
Nitrate (ppm)	7/6/2023	0.28		10	2.0	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits		
		DISINFE	CTION BYPRO	DUCTS (DBF	')			
Chemical or Constituent	Sample Date	Range of Detections	Final Running Annual Average	MCL	Highest Quarterly Running Average	Typical Source of Containment		
TTHM (ppb)	2023 (quarterly)	33 - 91	64.5	80	91	Byproduct of drinking water disinfection		
HAA5 (ppb)	2023 (quarterly)	17 - 88	45	60	88	Byproduct of drinking water disinfection		
Control of DBP Precursors (TOC)	2023 (Monthly)	Met or	exceeded the st	andards for the	e year.	Various natural and manmade sources		
TABLE 5 -	- DETECTION OF	CONTAMINA	NTS WITH A	<u>SECONDARY</u>	DRINKING '	WATER STANDARD		
Chemical or Constituent	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant		
Chloride (ppm)	7/6/2023	5.9		500	N/A	Runoff/leaching from natural deposits		
Color (color units)	7/6/2023	12		15	N/A	Naturally occurring organic materials		
Iron (ppb)	7/6/2023	49		300	N/A	Leaching from natural deposits; industrial wastes		
Odor (TON)*	7/6/2023	3		3	N/A	Naturally occurring organic materials		
Specific Conductance (umhos/cm)	7/6/2023	361		1600	N/A	Runoff/leaching from natural deposits		
Sulfate (ppm)	7/6/2023	25		250	N/A	Runoff/leaching from natural deposits		
Total Dissolved Solids (ppm)	7/6/2023	220		1000	N/A	Runoff/leaching from natural deposits		

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TABLE 6 - DETECTION OF UNREGULATED CONTAMINANTS									
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant			
None Detected									

Description of Water Treatment Process - Your water is treated by filtration and disinfection. Filtration removes particles suspended in the source water. Particles typically include clays and silts, natural organic matter, iron and manganese, and microorganisms. Your water is also treated by disinfection. Disinfection involves the addition of chlorine or other disinfectants to kill bacteria and other microorganisms (viruses, cysts, etc.) that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

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).
- The Napa Berryessa Resort Improvement District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. 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. 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.
- This Consumer Confidence Report (CCR) reflects changes in drinking water regulatory requirements during 2023. These revisions add the requirements of the federal Revised Total Coliform Rule, effective since April 1, 2016, to the existing state Total Coliform Rule. The revised rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbials (i.e., total coliform and E. coli bacteria). The U.S. EPA anticipates greater public health protection as the rule requires water systems that are vulnerable to microbial contamination to identify and fix problems. Water systems that exceed a specified frequency of total coliform occurrences are required to conduct an assessment to determine if any sanitary defects exist. If found, these must be corrected by the water system. The state Revised Total Coliform Rule became effective July 1, 2023.

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

TABLE 7 - VIO	TABLE 7 - VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT									
Violation	Explanation	Duration	Actions Taken to Correct the Violation							
1. Odor	The raw water odor threshold was found at the secondary MCL of 3 TON.	July 2023	Treatment is performed on the raw water prior to distribution to customers to eliminate natural odor in raw water, and adjustments have been made to the treatment process to reduce the nuisance odors not removed during the treatment process.							
HEALTH EFFECTS LANGUAGE FOR ODOR	even though water with odor testing results drink. Odor is also an indicator of the dor falls under secondary drinking water o public health. The violation of the odor MCL in c materials									

TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES						
Treatment Technique ^(a) (Type of approved filtration technology used)	Granular media filtration, Disinfection					
	Turbidity of the filtered water must:					
urbidity Performance Standards ^(b) hat must be met through the water treatment process)	1 – Be less than or equal to 0.20 NTU in 95% of measurements in a month.					
	2 - Not exceed 2.0 NTU for more than eight consecutive hours.					
	3 - Not exceed 5.0 NTU at any time.					
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100% - All months					
Highest single turbidity measurement during the year	0.199 (01/14/23) – Filter Train 2					
Number of violations of any surface water treatment requirements	0					

- (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

TABLE 9 - VIOLATION OF A SURFACE WATER TT										
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language						
No violations	No violations to report for TT for 2023.									

SWS CCR Revised January 2024