Jackson Valley Irrigation District

(JVID) 2022

ANNUAL

WATER QUALITY

REPORT

2022 Consumer Confidence Report

Water System Name: Jackson Valley Irrigation District (JVID) Report Date: May 31, 2023

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, 2022 to December 31, 2022 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Jackson Valley Irrigation District (JVID) | 6755 Lake Amador Dr. Ione, CA 95640| a (209) 274-2037 para asistirlo en español.

Type of water source(s) in use: Surface Water

Name & general location of source(s): Lake Pardee (Primary) and Lake Amador (Secondary)

Drinking Water Source Assessment information:

A copy of the assessment can be obtained by contacting ACEHD at (209) 223-6439

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

JVID Board Meetings are on the second

Wednesday of the month at the JVID Office at 6:00pm. Website at https://www.jvid.org/meetings

For more information, contact: Steven Fredrick and/or Mike Thompson Phone: (209) 274-2037

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 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.

Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a month)	0	1 positive monthly sample	0	Naturally present in the environment
(state Total Coliform Rule) Fecal Coliform or E. coli (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. coli</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.

Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Dates	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)	07/15/2022 & 09/16/2022	22	ND	None	15	0.2		Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	07/15/2022 & 09/16/2022	22	1.1	None	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natura deposits; leaching from wood preservatives

Chamical on Constituent		3 - SAMPLING	THE RESERVE TO SHARE THE PARTY OF THE PARTY	CSODIUM	-	NESS	Section 2
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical So	urce of Contaminant
Sodium (ppm)	07/28/2022			None	None		the water and is
Hardness (ppm)	07/28/2022			None	None	Sum of polyv the water, ger calcium, and occurring	alent cations present in perally magnesium and pare usually naturally
TABLE 4 – DE	TECTION (OF CONTAMINA	ANTS WITH A	PRIMARY	DRINKING	G WATER ST	ANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]		irce of Contaminant
Asbestos (MFL)	07-28-2022	ND	ND	7 MLF	7 MLF		sion of asbestos mains; erosion of
Gross Alpha Particle Activity (pCi/L)	12/12/2022	Pardee Reserve Raw 6.01+1.48				Erosion of nat	
Aluminum (mg/L)	07/28/2022	ND		15	0.6	Erosion of nat from some sur processes	ural deposits; residue face water treatment
Chlorine (mg/L)	Sampled Monthly 2022	0.91 (Annual Average)	<0.10 – 2.3	[MRDL = 4.0 (as Cl ₂)]	[MRDLG = 4 (as Cl ₂)]		r disinfectant added
TTHMs [Total Trihalomethanes] (µg/L) HAA5 [Sum of 5 Haloacetic	Quarterly 2022	Average = 55.8	40.3 – 76.9	80	Not Available	Byproduct of o	Irinking water
Acids] (μg/L)	Quarterly 2022	Average = 33.7	10.9 – 62.2	60	Not Available	Byproduct of o	
TABLE 5 – DETE	CTION OF	CONTAMINAN	TS WITH A SI	ECONDAR	Y DRINKIN	IG WATER S	TANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Sou	rce of Contaminant
Color (Units)	07/28/2022	ND		15 Units	NA	Naturally-occumaterials	rring organic
Iron (ug/L)	07/28/2022	110		300 ug/L	NA		natural deposits;
Odor Fhreshold (Units)	07/28/2022	ND		3 Units	NA	Naturally-occu materials	
Γurbidity (NTU)	07/28/2022	0.87		5	NA	Soil runoff	
Total Dissolved Solids TDS] (mg/L)	07/28/2022	24		1,000	NA	Runoff/leachin deposits	g from natural
Specific Conductance µS/cm) Chloride (mg/L)	07/28/2022	43		1,600	NA NA		form ions when in influence
Sulfate (mg/L)	07/28/2022	2.2		500	NA	Runoff/leaching deposits; seawa	g from natural
duriate (mg/L)	07/28/2022	1.2		500	NA	Runoff/leaching deposits; seawa	g from natural
	TABLE 6	- DETECTION	OF UNREGUL	ATED CO	NTAMINAN	NTS	
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notificat			fects Language
1,2,3-Trichloropropane	12/12/2022	ND	ND	. No	ne	1,2,3-trichloropi MCL over mar	odrink water containing opane in excess of the many years may have an of getting cancer.

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. Jackson Valley Irrigation District 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

			NG AND REPORTING REQUI	Health Effect
Violation	Explanation	Duration	the Violation	Language

For Systems Providing Surface Water as a Source of Drinking Water

Treatment Technique (a) Type of approved filtration technology used)	Conventional Filtration
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>1.0</u> NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	95%
Highest single turbidity measurement during the year	0.09 NTU October 4 th , 2022
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) 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.

Revised February 2019 SWS CCR Form

Summary Information for Violation of a Surface Water TT

	VIOLATI	ON OF A SURFACE	WATER TT	
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
				P

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 <u>not required</u> to conduct any Level 1 assessment(s). <u>None</u> of the Level 1 assessment(s) were completed. In addition, we were <u>not required</u> to take corrective actions and we completed <u>none</u> of these actions.

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 <u>not</u> required to take corrective actions and we completed <u>none</u> of these actions.

Report prepared 05-31-2023 by Alpha Analytical Laboratories, Inc., using CCR Guidance for Water Suppliers available at, http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/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.