2022 Consumer Confidence Report

Water System Information

Water System Name: Wonder Acres

Report Date: September 5, 2023

Type of Water Source(s) in Use: Purchased from Mojave Public Utility District.

Name and General Location of Source(s):

Drinking Water Source Assessment Information: <u>Available at: 21000 Hacienda Blvd. California</u> <u>City, CA 93505</u>

Time and Place of Regularly Scheduled Board Meetings for Public Participation: <u>Second and Fourth</u> <u>Tuesday of the Month at 6:00pm; California City's City Hall Building located at 21000</u> <u>Hacienda</u> <u>Blvd. California City, CA 93505</u>

For More Information, Contact: Joe Barragan PW Director

Phone: (760) 373-7162

About This Report

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, 2020 and may include earlier monitoring data.

Importance of This Report Statement in Five Non-English Languages (Spanish, Mandarin, Tagalog, Vietnamese, and Hmong)

Language in Spanish: Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse <u>Wonder Acres</u> a <u>21000 Hacienda Blvd. California City, CA 93505</u> Phone Number] para asistirlo en español.

Language in Mandarin: 这份报告含有关于您的饮用水的重要讯息。请用以下地址和电话联系 <u>Wonder</u> <u>Acres</u>以获得中文的帮助: <u>21000 Hacienda Blvd. California City, CA 93505 (760) 373-7162</u>.

Language in Tagalog: Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa <u>Wonder Acres</u> <u>21000 Hacienda Blvd.</u> <u>California City, CA 93505</u> o tumawag sa <u>(760) 373-7162</u> para matulungan sa wikang Tagalog.

Language in Vietnamese: Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ <u>Wonder Acres</u> tại <u>21000 Hacienda Blvd. California City, CA 93505</u> (760) 373-7162 để được hỗ trợ giúp bằng tiếng Việt.

Language in Hmong: Tsab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau <u>Wonder Acres</u> ntawm <u>21000 Hacienda Blvd. California City, CA 93505 (760) 373-7162</u> rau kev pab hauv lus Askiv.

SWS CCR

Terms Used in This Report

Term	Definition					
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 <i>E. coli</i> MC 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	Permissions from the State Water Resources Control Board (State Board) 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 million or milligrams per liter (mg/L)					
ppt	parts per trillion or nanograms per liter (ng/L)					
ррд	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

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.

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

Drinking Water Contaminants Detected

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.

Table 1. Sampling Results Showing the Detection of Coliform Bacteria

Complete if bacteria are detected.

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 month) <u>0</u>	<u>0</u>	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) <u>0</u>	<u>0</u>	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	None	Human and animal fecal waste
<i>E. coli</i> (Federal Revised Total Coliform Rule)	(In the year) <u>0</u>	<u>0</u>	(b)	0	Human and animal fecal waste

(a) Two or more positive monthly samples is a violation of the MCL

(b) 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

Complete if lead or copper is detected in the last sample set.

Lead and Copper	Sample Date	No. of Samples Collected	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	рнс	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	<u>2020</u>	<u>25</u>	<u>0.0037</u>	<u>0</u>	15	0.2	<u>0</u>	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	<u>2020</u>	<u>25</u>	<u>0.21</u>	<u>0</u>	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)	<u>2020</u>	77	<u>140-160</u>	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	<u>2020</u>	<u>292</u>	<u>82-150</u>	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

Table 4. Detection of Contaminants 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
Arsenic (ppb)	<u>2021</u>	<u>6.3</u>	<u>2-13.</u> 2	<u>10</u>	<u>0.004</u>	Erosion of natural deposits; run off from orchards; glass and electronics production wastes.
<u>Barium (ppm)</u>	<u>2021</u>	<u>24</u>	<u>20 - 28</u>	1	2	Discharge of oil drilling wastes and from metal refineries; erosion of national deposits
Fluoride (ppm)	<u>2021</u>	<u>.43</u>	<u>0.21 - 0.61</u>	<u>2.0</u>	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
<u>Selenium (ppb)</u>	<u>2021</u>	<u><2</u>	<u>0 - 3.38</u>	<u>50</u>	<u>30</u>	Discharge from petroleum, glass and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers;

						runoff from livestock lots (feed additives)
<u>Nitrate (ppm)</u>	<u>2021</u>	<u>2.37</u>	<u>1.8 - 3.3</u>	<u>10</u>	<u>10</u>	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits

Table 5. Detection of Contaminants with a Secondary Drinking Water Standard

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
<u>Aluminum</u> (ppm)	<u>2021</u>	<u><50</u>	<u>0 - 0.05</u>	1	<u>N/A</u>	Erosion of natural deposits; residual from some surface water treatment process
<u>Calcium</u> (ppm)	<u>2021</u>	<u>78</u>	<u>24 - 86</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<u>Chloride</u> (ppm)	<u>2021</u>	<u>39</u>	<u>39 - 82</u>	<u>250</u>	<u>N/A</u>	Runoff/leaching from natural deposits; seawater influence
Foaming Agents [MBAS] (ppb)	<u>2021</u>	<u><0.1</u>	<u>0</u>	<u>0.5</u>	<u>N/A</u>	<u>Municipal and industrial</u> waste discharges
<u>lron (ppb)</u>	<u>2021</u>	<u><50</u>	<u>0 - <50</u>	<u>300</u>	<u>N/A</u>	<u>Leaching from natural</u> <u>deposits; industrial</u> <u>wastes</u>
<u>Magnesium</u> (ppb)	<u>2021</u>	<u>8.4</u>	<u>5.4 - 11</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<u>Manganese</u> (ppb)	<u>2021</u>	<u><10</u>	<u>0 - <10</u>	<u>50</u>	<u>N/A</u>	<u>Leaching from natural</u> <u>deposits</u>
<u>PH (pH</u> <u>Unit)</u>	<u>2021</u>	<u>7.8</u>	<u>7.6 - 8.3</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<u>Sulfate</u> (ppm)	<u>2021</u>	<u>196</u>	<u>0 - 196</u>	<u>500</u>	<u>N/A</u>	Runoff/leaching from natural deposits; industrial wastes
<u>Total</u> <u>Dissolved</u> <u>Solids</u> [TDS] (ppm)	<u>2021</u>	<u>645</u>	<u>0 - 645</u>	<u>1,000</u>	<u>N/A</u>	<u>Runoff/leaching from</u> <u>natural deposits</u>
<u>Turbidity</u> (NTU)	<u>2021</u>	<u>0.42</u>	<u>0.1 – 0.42</u>	Π	<u>N/A</u>	Soil runoff

Potassium (ppm)	<u>2021</u>	<u>2.2</u>	<u>0 – 2.2</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Zinc (ppm)	<u>2021</u>	<u><50</u>	<u>0 - <50</u>	<u>5000</u>	<u>N/A</u>	Runoff/leaching from natural deposits; industrial wastes

Table 6. Detection of Unregulated Contaminants

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
<u>Total</u> <u>Chromium</u> (ppb)	<u>2021</u>	<u><10</u>	<u>10 - 16</u>	<u>50</u>	Some people who use water containing chromium in excess of MCL over many years may experience allergic dermatitis
Strontium 90 (pCi/L)	<u>2021</u>	<u><3</u>	<u>0 - <3</u>	<u>8</u>	Once in the body, Sr-90 acts like calcium and is readily incorporated into bones and teeth, where it can cause cancers of the bone, bone marrow, and soft tissues around the bone.
Hexavalent Chromium (ppb)	<u>2021</u>	<u>3.4</u>	<u>2.5-11</u>	<u>N/A</u>	Some people who drink water containing hexavalent chromium in excess of the MCL over many years may have an increased risk 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. [Enter Water System's Name] 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. [Optional: 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

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
<u>None</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>
None	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Table 7. Violation of a MCL, MRDL, AL, TT or Monitoring Reporting Requirement

For Water Systems Providing Groundwater as a Source of Drinking Water

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) <u>0</u>	<u>2021</u>	0	(0)	Human and animal fecal waste
Enterococci	(In the year) <u>0</u>	<u>2021</u>	ТТ	N/A	Human and animal fecal waste
Coliphage	(In the year) <u>0</u>	<u>2021</u>	ТТ	N/A	Human and animal fecal waste

Summary Information for Fecal Indicator-Positive Groundwater Source Samples, Uncorrected Significant Deficiencies, or Violation of a Groundwater TT

Special Notice of Fecal Indicator-Positive Groundwater Source Sample: None

Special Notice for Uncorrected Significant Deficiencies: None

Table 9. Violation of Groundwater TT

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
<u>None</u>	<u>N/A</u>	N/A	N/A	<u>N/A</u>
None	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

For Systems Providing Surface Water as a Source of Drinking Water

Table 10. Sampling Results Showing Treatment of Surface Water Sources

Treatment Technique ^(a) (Type of approved filtration technology used)	<u>N/A</u>
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>N/A</u> NTU in 95% of measurements in a month. 2 – Not exceed <u>N/A</u> NTU for more than eight consecutive hours. 3 – Not exceed <u>N/A</u> NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	<u>N/A</u>
Highest single turbidity measurement during the year	<u>N/A</u>
Number of violations of any surface water treatment requirements	<u>N/A</u>

(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 11. Violation of Surface Water TT

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
<u>None</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
None	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Level 1 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 an assessment to identify problems and to correct any problems that were found during these assessments.

During the past year we were required to conduct one Level 1 Assessments. One Level 1 assessment was completed. We took additional samples as required and those samples were returned clean and negative for Total Coliform.

Summary Information for Operating Under a Variance or Exemption

<u>N/A</u>

Summary Information for Federal Revised Total Coliform Rule Level 1 and Level 2 Assessment Requirements

<u>N/A</u>

TEST RESULTS

Contaminant	Violation YIN	Level Detected	Range	Unit	MCL	PHG	MCLG	Likely Source of Contamination
Microbiological Contan Turbidity	n inants N	0.42	<0.1-0.42	NT Units	5TT	N/A	N/A	Soil Runoff
Radioactive Contamin Gross Alpha	Ν	8.06	7.05-8.06	pCilL	15	N/A	N/A	Erosion of natural deposits
Inorganic Contaminant Aluminum	s N	<0.05	0.0-0.05	mg/L	1	N/A	N/A	Erosion of natural deposits, residue from some surface water treatment process
Antimony	Ν	<2	0.0- <2	ug/L	6	20	N/A	Discharge from petroleum refineries; fire retardants, ceramics, electronics; solder
**Arsenic	Ν	13.1	<2-13.1	ug/L	10	N/A	N/A	Erosion of natural deposits; runoff from orchards, glass wastes
Barium	Ν	28	20-28	ug/L	1000	N/A	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Beryllium	Ν	<1	0.0-<1	ug/L	4	N/A	4	Discharge from metal refineries, coal- burning factories. and electrical, aerospace, and defense industries.
Cadmium	Ν	<1	0.0-<1	ug/L	5	.07	N/A	Internal Corrosion of galvanized pipes; erosion of natural deposits; discharge from electroplating and industrial chemical factories & metal refineries; runoff from waste batteries and paints.
Total Chromium	Ν	16	<10-16	ug/L	50	2.5	N/A	Discharge from steel and pulp mills and chrome plating, erosion of natural deposits
Cyanide	Ν			ug/L	200	150	N/A	Discharge from steel/metal plastic and fertilizer factories
Fluoride	Ν	.61	0.21-0.61	mg/L	2	1	N/A	Erosion of natural deposits; water additive which promotes strong teeth, discharge from fertilizer, and aluminum factories.
Mercury (Inorganic)	Ν	<0.2	0.0-<0.2	ug/L	2	1.2	N/A	Erosion of natural deposits discharge from refineries & factories, runoff from landfills, runoff from cropland
Nickel	Ν	<10	0.0-<10	ug/L	100	N/A	100	Erosion of natural deposits; discharge from metal factories
Nitrate (As N)	Ν	2.9	1.8-2.9	mg/L	10	10	N/A	Runoff from leaching from fertilizer use; leaching from septic tanks, sewage erosion of natural deposits
Nitrite (As N)	Ν	<50	0.0-<50	ug/L	1000	1000	N/A	Runoff from leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium Synthetic Organic Com	N taminants includir	3.8 ng Pesticides :	0.0-3.8 and Herbicides	ug/L	50	N/A	50	Discharge from petroleum glass and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturer; runoff from livestock lots (feed additive)
Atrazine	Ν	<0.5	0-<0.5	ug/L	1	0.15	N/A	Herbacide; runoff from cropland
Simazine	Ν	<1	0-<1	ug/L	4	4	N/A	Herbacide; runoff from cropland
Thallium	Ν	<1	0.0-<1	ug/L	2	0.1	N/A	Leaching from ore-processing sites; discharge from electronics. glass and
Volatile Organic Conta	minants							drug factories
TTHM Total Trihalomethane	N s	19	15-19	ug/L	80	N/A	N/A	By-product of drinking water chlorination
HAA5 Total Haloacetic Acid	N	3.9	<1-3.9	ug/L	60	N/A	N/A	By-product of drinking water chlorination
Lead and Copper	No. of Samples Collected	90t) Ievi	n percentile el detected	No. Sites exceeding AL		AL	MCL	Internal Corrosion ·Of household
Lead (mg/L)	25		0.0018	0		0.015	2	waler plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (mg/L)	25		0.19	0		1.3	1	Internal Corrosion of household water plumbing systems; erosion of natural deposits.

ANNUAL WATER QUALITY REPORT - MOJAVE PUBLIC UTILITY DISTRICT Primary Standards - Mandatory Health-Related Standards Established by the

State of California, Department of Health Services

PARAMETER INORGANIC CHEMICALS	UNITS	MAXIMUM CONTAMINANT LEVEL	MOJAVE P.U.D. WELLS AVG.		
Aluminum	ug/L	1000	<50		
Antimony	ug/L	6	<2		
Arsenic	ug/L	10	6.6		
Asbestos	MFL	7	ND		
Barium	ug/L	1000	24		
Beryllium	ug/L	4	< 1.0		
Total Chromium	ug/L	50	< 10		
Cadmium	ug/L	5	<1		
Cyanide	ug/L	200	< 20		
Fluoride	mg/L	200	0.43		
Lead	mg/L	2	<1		
Mercury	ug/L	2	<0.2		
Nickel	ug/L ug/L	100	<0.2 <10		
	0	100	2.28		
Nitrate (As No3)	mg/L	100	2.20 <50		
Nitrite(As N)	ug/L				
Selenium	ug/L	50	<2.		
Silver	ug/L	100	<10		
Thallium	ug/L	2	<1		
RADIOACTIVITY					
Gross Alpha Activity	pCi/L	15	7.56		
Gross Beta Activity	pCi/L	50	NR		
Radium 226 & 228 Combined	pCi/L		NR		
Strontium-90	pCi/L	8	NR		
Tritium	pCi/L	20,000	NR		
Uranium	pCi/L	20	8.1		
Color	Units	15	1.67		
Odor-Threshold @ 60 C	Units	3	ND		
Chloride	mg/L	500	39.		
Copper	ug/L	1000	<10		
MBAS	mg/L	0.5	<0.1		
Iron	ug/L	300	<50		
Manganese	ug/L	50	<10		
Sulfate	mg/L	500	196		
Zinc	ug/L	5000	<50		
Total Dissolved Solids	mg/L	1000	645		
Additional Constituents Ana	lyzed				
рH	-	No Standard	7.80		
Hardness (CaCO ₂)	mg/L	No Standard	292		
Sodium	mg/L	No Standard	77		
Calcium	mg/L	No Standard	78		
Potassium	mg/L	No Standard	2.2		
Magnesium	mg/L	No Standard	25		
MTBE	ug/L	13	< 0.5		
Chromium, Hexavalent	ug/L	No Standard	3.4		
Boron	ug/L		0.34		
Vanadium	mg/L		3.52		
Perchlorate	uq/L	6	<4.0		
1,2,3-Trichloropropane	ug/L	.005	ND		
1,2,0 11011010propulio	~y-				

There is currently no MCL for hexavalent chromium. The previous MCL of 0.010 mg/L was withdrawn on September 11, 2017.

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The Antelope Valley-East Kern Water Agency provides treated surface water and treated groundwater as our sources of drinking water. Treatment technique: Conventional EPA Turbidity Performance Standards: Turbidity of the filtered water must: 1. Be less than or equal to 0.30 NTU in 95% of measurements in a month. 2. Not exceed 1 NTU at any time.

Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1: 100% Highest single turbidity measurement during the year: Percentage of samples <0.30 NTU: **100%** 0.19 NTU

The number of violations of any surface water treatment requirements:

NONE

Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration perfor-mance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

The Antelope Valley-East Kern Water Agency also provides chlorinated groundwater as an alternative source of drinking water. Treatment technique: Chlorination

EPA Groundwater Rule: AVEK meets the requirements of the Groundwater Rule by providing a minimum of 4-log reduction of viruses by continuously providing a minimum free chlorine residual of 0.5 mg/L leaving the clearwell.

Lowest single free chlorine residual measurement during the year: 0.89 Number of violations of the Groundwater Rule: NONE Number of violations of the Groundwater Rule:

MICROBIOLOGICAL CONTAMINANTS

Type of <u>Samples</u>	<u>Parameter</u>	Sampling <u>Frequency</u>	MCL	No. of Months in Violation	System	<u>Results</u>
					Range	Average
Distribution	Total Coliform Bacteria	56 - 70 / mo	5% positive	None	0%	0%
Distribution	E. coli	56 - 70 / mo	1 pos. with 2 TC pos	None	0%	0%

INORGANIC CONTAMINANTS

					RESULTS								
						Rosamo	nd Plant			Wate	ater Bank		
					Raw Influent Plant Effluent (CWR) (Sources)		Effluent (CWR)		Wells				
Parameter	<u>Units</u>	MCL	DLR	PHG	Range	Average	Range	Average	Range	Average	Range	Aver- age	
Aluminum	ug/L	1000	50	600	93-250	130	ND	ND					
Antimony	ug/L	6	6	1		ND	ND	ND					
Arsenic	ug/L	10	2	0.004		3,6	3.2-8.1	5.0	2.5-7.3	5.5	2.2-12	5.2	
Barium	ug/L	1000	100	2000		58	30-58	44					
Beryllium	ug/L	4	1	1		ND	ND	ND					
Cadmium	ug/L	5	1	0.04		ND	ND	ND					
Chromium (Total)	ug/L	50	10			5,1	5.4-14	8.6					
Chromium (Hexavalent)	ug/L	*	1	0.02		5.8	6.6-15	11					
Cyanide	ug/L	150	100	150		ND	ND	ND					
Fluoride	mg/L	2	0.1	1		0.28	0.29-0.36	0.32					
Mercury	ug/L	2	1	1.2		ND	ND	ND					
Nickel	ug/L	100	10	12		ND	ND	ND					
Nitrate (as N)	mg/L	10	0.4	10		2.5	12.5	1.9			1.2-4.5	2.5	
Nitrite (as N)	mg/L	1	0.4	1		ND	ND	ND			ND	ND	
Nitrate+Nitrite (as N)	mg/L	10		10		2.5	ND-2.5	0.83			1.5-3.4	2.2	
Perchlorate	ug/L	6	2	1		ND	ND	ND			ND	ND	
Selenium	ug/L	50	5	30		ND	ND	ND			ND-7.0	0.64	
Thallium	ug/L	2	1	0.1		ND	ND	ND			ND	ND	

There is currently no MCL for hexavalent chromium. The previous MCL of 0.010 mg/L was withdrawn on September 11, 2017.

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GENERAL PHYSICAL AND SECONDARY STANDARDS

				RESULTS									
					Rosamo	nd Plant		Water Bank					
				Plant Eff (CWF		Raw Inf (Sourc		Effluent	(CWR)	We	lls		
Parameter	<u>Units</u>	MCL	DLR	Range	Aver- age	Range	Aver- age	Range	Average	Range	Average		
Aluminum	ug/L	1000	50	93-250	140	ND	ND						
Calcium	mg/L	no standard			63	63-97	74						
Chloride	mg/L	250			54	40-53	47						
Color	Units	15		<5	<5	<5	<5						
Copper	ug/L	1000	50		ND	ND	ND						
Foaming Agents (MBAS)	mg/L	0.5			ND	ND	ND						
Hardness (Total) as CaCO3	mg/L	no standard			200	91-200	140						
Iron	ug/L	300	100		ND	ND	ND						
Magnesium	mg/L	no standard			9.7	5.7-9.7	8.3						
Manganese	ug/L	50	20		ND	ND	ND						
Odor @60 C	Units	3	1	<1	<1	<1	<1						
рН	Units	no standard		7.3-7.9	7.6	7.7-8.6	8.0						
Silver	ug/L	100	10			ND	ND						
Sodium	mg/L	no standard			46	ND-44	15						
Specific Conductance	umhos	900			580	420-580	500						
Sulfate	mg/L	250	0.5		60	47-58	53						
Thiobencarb (Bolero)	ug/L	1	1		ND	ND	ND						
Methyl tert-Butyl Ether (MTBE)	ug/L	5	3		ND	ND	ND						
Total Dissolved Solids	mg/L	500			330	240-320	290						
Turbidity	Units	5		0.01-0.20	0.05	0.02-1.1	0.10						
Zinc	ug/L	5000	50		450	ND	ND						
Total Alkalinity (as CaCO3)	mg/L	no standard			140	120-150	140						
Bicarbonate Alkalinity (as HCO3)	mg/L	no standard			140	ND-150	50						
Carbonate (as CO3)	mg/L	no standard			ND	ND	ND						
Hydroxide (as OH)	mg/L	no standard			ND	ND	ND						

RADIOLOGICAL CONTAMINANTS

					RESULTS						
						ond Plant nt (Sources)	Water Bank Wells				
Parameter	<u>Units</u>	MCL	DLR	PHG	Range	Average	Range	Average			
Gross Alpha	pCi/L	15	3								
Gross Beta	pCi/L	50	4			ND					
Strontium 90	pCiL	8	2	0.35							
Tritium	pCi/L	20,000	1,000	400							
Uranium	pCi/L	20	1	0.43		3.5					
Radium 228	pCi/L		1	0.019		ND					
Radium 226	pCi/L		1	0.05		ND					

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VOLATILE ORGANIC CONTAMINANTS

RESULTS

					RESULTS					
					Rosamo	nd Plant	Water	Bank		
					Raw Influe	nt (Sources)	W	ells		
Parameter	<u>Units</u>	<u>MCL</u>	<u>DLR</u>	<u>PHG</u>	<u>Range</u>	Average	<u>Range</u>	Average		
1,1,1-Trichlorethane (1,1,1-TCA)	ug/L	200	0.5	1000	ND	ND	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	1	0.5	0.1	ND	ND	ND	ND		
1,1,2-Trichlorethane (1,1,2-TCA)	ug/L	5	0.5	0.3	ND	ND	ND	ND		
1,1-Dichloroethane (1,1-DCA)	ug/L	5	0.5	3	ND	ND	ND	ND		
1,1-Dichloroethylene (1,1-DCE)	ug/L	6	0.5	10	ND	ND	ND	ND		
1,2,4-Trichlorobenzene	ug/L	5	0.5	5	ND	ND	ND	ND		
1,2-Dichlorobenzene (o-DCB)	ug/L	600	0.5	600	ND	ND	ND	ND		
1,2-Dichloroethane (1,2-DCA)	ug/L	0.5	0.5	0.4	ND	ND	ND	ND		
1,2-Dichloropropane	ug/L	5	0.5	0.5	ND	ND	ND	ND		
1,3-Dichloropropene (Total)	ug/L	0.5	0.5	0.2	ND	ND	ND	ND		
1,4-Dichlorobenzene (p-DCB)	ug/L	5	0.5	6	ND	ND	ND	ND		
Benzene	ug/L	1	0.5	0.15	ND	ND	ND	ND		
Carbon tetrachloride	ug/L	0.5	0.5	0.1	ND	ND	ND	ND		
cis-1,2-Dichloroethylene (c-1,2-DCE)	ug/L	6	0.5	100	ND	ND	ND	ND		
cis-1,3-Dichloropropene	ug/L				ND	ND	ND	ND		
Dichloromethane (Methylene Chloride)	ug/L	5	0.5	4	ND	ND	ND	ND		
Ethylbenzene	ug/L	300	0.5	300	ND	ND	ND	ND		
Methyl-tert-butyl-ether (MTBE)	ug/L	13	3	13	ND	ND	ND	ND		
Monochlorobenzene (Chlorobenzene)	ug/L	70	0.5	70	ND	ND	ND	ND		
Styrene	ug/L	100	0.5	0.5	ND	ND	ND	ND		
Tetrachloroethylene (PCE)	ug/L	5	0.5	0.06	ND	ND	ND	ND		
Toluene	ug/L	150	0.5	150	ND	ND	ND	ND		
trans-1,2-Dichloroethylene (t-1,2-DCE)	ug/L	10	0.5	60	ND	ND	ND	ND		
trans-1.3-Dichloropropene	ug/L				ND	ND	ND	ND		
Trichloroethylene (TCE)	ug/L	5	0.5	1.7	ND	ND	ND	ND		
Trichlorotrifluromethane (Freon 11)	ug/L	150	5	1300	ND	ND	ND	ND		
Trichlorotrifluorethane (Freon 113)	ug/L	1200	10	4000	ND	ND	ND	ND		
Vinyl Chloride (VC)	ug/L	0.5	0.5	0.05	ND	ND	ND	ND		
Xylenes (Total)	ug/L	1750	0.5	1800	ND	ND	ND	ND		

SYNTHETIC ORGANIC CONTAMINANTS

RESULTS

						RES	RESULTS		
					Rosamo	nd Plant	Water	ater Bank	
					Raw Influe	nt (Sources)	w	ells	
Parameter	<u>Units</u>	MCL	DLR (D ¹)	PHG	Range	<u>Average</u>	Range	<u>Average</u>	
Alachor	ug/L	2	1	4	ND	ND			
Atrazine	ug/L	1	0.5	0.15	ND	ND			
Bentazon	ug/L	18	2	200	ND	ND			
Benzo(a)pyrene	ug/L	0.2	0.1	0.007	ND	ND			
Carbofuran	ug/L	18	5	0.7	ND	ND			
Chlordane	ug/L	0.1	0.1	0.03	ND	ND			
2,4-D	ug/L	70	10	20	ND	ND			
Dalapon	ug/L	200	10	790	ND	ND			
Dibromochloropropane (DBCP)	ug/L	0.2	0.01	0.0017	ND	ND			
Di(2-ethylhexyl)adipate	ug/L	400	5	200	ND	ND			
Di(2-ethylhexyl)phthalate	ug/L	4	3	12	ND	ND			
Dinoseb	ug/L	7	2	14	ND	ND			
Diquat	ug/L	20	4	6	ND	ND			
Endothall	ug/L	100	45	94	ND	ND			
Endrin	ug/L	2	0.1	0.3	ND	ND			
Ethylene Dibromide (EDB)	ug/L	0.05	0.02	0.01	ND	ND			
Glyphosate	ug/L	700	25	900	ND	ND			
Heptachlor	ug/L	0.01	0.01	0.008	ND	ND			
Heptachlor Epoxide	ug/L	0.01	0.01	0.006	ND	ND			
Hexachlorobenzene	ug/L	1	0.5	0.03	ND	ND			
Hexachlorocyclopentadiene	ug/L	50	1	2	ND	ND			
Lindane	ug/L	0.2	0.2	0.032	ND	ND			
Methoxychlor	ug/L	30	10	0.09	ND	ND			
Molinate	ug/L	20	2	1	ND	ND			
Oxamyl	ug/L	50	20	26	ND	ND			
Pentachlorophenol	ug/L	1	0.2	0.3	ND	ND			
Picloram	ug/L	500	1	166	ND	ND			
Polychlorinated Biphenyls	ug/L	0.5	0.5	0.09	ND	ND			
Simazine	ug/L	4	1	4	ND	ND			
Thiobencarb (Bolero)	ug/L	70	1	42	ND	ND			
Toxaphene	ug/L	3	1	0.03	ND	ND			
2,3,7,8-TCDD (Dioxin)	ug/L	30	5	0.05	ND	ND			
2,4,5-TP (Silvex)	ug/L	50	1	3	ND	ND			
1,2,3-Trichloropropane	ug/L	0.005	0.005	0.0007	ND	ND			

DISINFECTION RESIDUAL, PRECURSORS, and BYPRODUCTS

RESULTS

Type of Samples	Parameter	Units	MCL/MRDL	DLR	MRDLG	Range	<u>Average</u>
Distribution	Chlorine (as total CI2)	mg/L	4.0**		4	0.26-1.48	1.07
Treated Water	Total Organic Carbon (TOC)	mg/L	Treatment Required	0.3		0.04-0.9	0.6
Source Water	Total Organic Carbon (TOC)	mg/L	Treatment Required	0.3		0.5-0.9	0.6
Distribution	Stage 2 D/DBP Rule Total Trihalomethanes	ug/L	80**			14-25	20#
Distribution	Stage 2 D/DBP Rule Total Haloacetic Acids	ug/L	60**			2.2-7.2	2.1#
Treated Water	Bromate	ug/L	10*	1.0		ND	ND

** Running annual Average of distribution system samples. The MCLs are based upon Running Annual Averages.

Stage 2 D/DBP Rule Total THMs and Total HAAs compliance is based upon Locational Running Annual Averages.

Location with the highest TTHM average

* Compliance is based on the running annual average computed quarterly, of monthly samples, collected at the entrance to the distribution system.

DEFINITIONS AND FOOTNOTES

Plant Effluent, CWR, is finished, treated drinking water.

Raw Water is the source Water, the California Aqueduct or wells, prior to treatment.

Units: mgl = milligrams per liter, parts per million (ppm)

- ug/L = micrograms per liter, parts per billion (ppb)
- pg/L = picograms per liter, parts per quadrillion (ppq)
- umhos = micromhos, a measure of specific conductance

MFL = million fibers per liter

pCi/L = pico curies per liter

- < = less than
- > = greater than

ND = none detected above the DLR

- NTU = nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- MCL: Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are set by the US Environmental Protection Agency or the State Water Resources Control Board as close to the PHGs and MCLGs as is economically or technologically feasible.
- MRDL: Maximum Residual Disinfectant Level. The level of a disinfectant added for water treatment that may not be exceed at the consumer's tap.
- DLR: Detection Limit for purposes of Reporting.
- (DL): Detection limit determined by the laboratory when no DLR has been established.
- 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.
- MRDLG: Maximum Residual disinfectant Level Goal. The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLG are set by the US Environmental Protection Agency.
- PHG: Public Health Goal: 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 Office of Environmental Health Hazard Assessment.
- Primary Drinking Water Standard: Primary MCLs, specific treatment techniques adopted in lieu of primary MCLs, and monitoring and reporting requirements for MCLs that are specified in regulations.
- Secondary Standards: Aesthetic standards established by the State Water Resources Control Board.

All analyses performed by ELAP certified laboratories: AVEK Water Agency, Eurofins Eaton Analytical Laboratories, or Eurofins subcontract lab.

As you can see by the table, our system had no violations. We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned throughout monitoring and testing that some contaminants have been detected. The EPA has determined that your water IS SAFE at these levels.

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of 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 Environmental Protection Agency's Safe Drinking Hotline (800)-426-4791.

To ensure that the high-quality water we deliver is not compromised in the distribution system, Mojave Public Utility District has a robust cross-connection control program in place. Cross-connection control is critical to ensuring that activities on customers' properties do not affect the public water supply. Our cross-connection control specialists ensure that all of the existing backflow prevention assemblies are tested annually, assess all non-residential connections, and enforce and manage the installation of new commercial and residential assemblies.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people 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. EPA / CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the EPAs Safe Drinking Water Hotline (800) 426-4791.

We at Mojave Public Utility District work around the clock to provide top quality water to every tap. We ask that all our customers help us protect and conserve our water resources, which are the heart of our community, our way of life, and our children's future.

**New permit requirements passed in 2017 for public water systems require lead testing of drinking water in California schools. Mojave Elementary, Mojave Junior/Senior High, and East Kern Community, were sampled during 2018 in order to proactively meet permit requirements for public water systems. Up to eight samples were collected at each school with no exceedances. No schools submitted requests to be sampled for lead in 2022.

For more information visit:

https://www.waterboards.ca.gov/drinking_water/cerlic/drinkingwater/leadsamplinginschools.html

or contact:

Mojave Public Utility District 15844 K Street Mojave, CA (661) 824-4161 <u>https://mojavepud.specialdistrict.org/</u>