

2022 Consumer Confidence Report

Water System Name: Edgemont Acres Mutual Water Co. Report Date: August 16, 2023

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

We are pleased to provide you with this report and want to keep you informed about the water and services we have delivered to you over the past year. Our goal is, and always has been, to provide to you a safe and dependable supply of drinking water. 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 through December 31, 2022. AVEK'S Consumer Confidence Report has also been included for your review.

The type of water source used by the District for 2022 was purchased surface water from Antelope Valley East Kern Water Agency (AVEK). Well No. 1 is currently on standby and will only be used when there is an emergency/disruption of supply from AVEK. We will provide prior notification before using Well No. 1. A copy of our Drinking Water Source Assessment information may be viewed at our district office.

If you have questions about this report or concerning your water utility, please contact Alan Chenworth at (760) 769-4764. Our regularly scheduled board meetings for public participation are held the fourth Wednesday of each month at the water office located at 16638 Vista Del Oro Street, North Edwards, California at 5:00 p.m.

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 (USEPA).

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: Department 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 (ug/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 by-products 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 USEPA and the state Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

The following tables 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 Department 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 MC or AL is asterisked. Additional information regarding the violation is provided later in this report.*

TABLE 1 – MONTHLY BACTERIOLOGICAL ANALYSIS REQUIRES 2 TESTS PER MONTH FOR COLIFORM BACTERIA. TEST RESULTS WERE NEGATIVE FOR COLIFORM BACTERIA IN THE DISTRIBUTION SYSTEM.

TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER: 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 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. ADDITIONAL INFORMATION IS AVAILABLE FROM THE SAFE DRINKING WATER HOTLINE AT (800) 426-4791.

Lead and Copper (complete if lead or copper detected in the last sample set)	No. of samples collected	90 th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	10/30/2022 5	0.007	0	0.015	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	10/30/2022 5	0.225	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 – MONTHLY BACTERIOLOGICAL TESTING REQUIRES CHLORINE TESTING TO BE CONDUCTED AT THE SAME TIME WITHIN THE DISTRIBUTION SYSTEM. THE CHLORINE RESULTS ARE AS FOLLOWS:

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Chlorine (ppm)	2022	1.01	0.94-1.37	[4]	[4]	Water additive to control microbes

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]		Typical Source of Contaminant
Total Trihalomethanes (ppb)	8/11/2022	19	NA	80		By-product of drinking water chlorination
Total Haloacetic Acids (ppb)	8/11/2022	4.9	NA	60		By-product of drinking water chlorination

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 USEPA'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. USEPA/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).

Under the Safe Drinking Water Act (SDWA), the United States Environmental Protection Agency (USEPA) is responsible for setting national limits for hundreds of substances in drinking water and also specifies various treatments that water systems must use to remove these substances. Each system continually monitors for these substances and reports their findings to the USEPA. The USEPA uses this data to ensure that consumers are receiving clean water.

This publication conforms to the regulation under SDWA requiring water utilities to provide detailed water quality information to each of their customers annually. We are committed to providing you with this information about your water supply because customers who are well informed are our best allies in supporting improvements necessary to maintain the highest water standards.

[illegible]

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During the calendar year 2021, we collected samples for total trihalomethanes and halo acetic acids 5 (disinfection byproducts) from the approved location in the distribution system on December 6, 2021, and failed to collect these samples within the specified timeframe of August 2021, per our approved DBP monitoring plan, thereby violated the monitoring requirements in the regulation. As a result, we received a citation from the state for failing to collect the sample at the required time. We received this citation on March 19, 2022 (Citation no. 03-19-22C-01B), but for the 2021 calendar year.

ANTELOPE VALLEY – EAST KERN WATER AGENCY

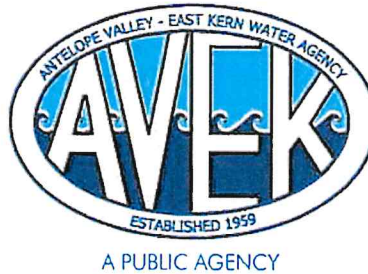
2022 ANNUAL WATER QUALITY REPORT

KERN COUNTY SYSTEM

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March 29, 2023

Dear General Manager:

This is the 2022 Annual Water Quality Report from the Antelope Valley-East Kern Water Agency (AVEK). Since the water you obtain from AVEK represents one of your sources of water, we have included a summary of results for all analyses completed in 2022 for your convenience. If you find that you need copies of individual monitoring reports please feel free to contact me and I will be happy to provide those for you.

The AVEK Rosamond Water Treatment Plant was operating the majority of 2022. While the treatment plant was offline, water from our Westside Water Bank well field was delivered to our Kern County customers.

In accordance with the Consumer Confidence Report (CCR) guidance manuals issued by the State Water Resources Control Board and the United States Environmental Protection Agency, we are herein providing you with the monitoring data and other information you will need to produce your CCR.

If you have any questions or need additional information, please call me at 661-943-3201. However, please do not designate AVEK or this office as your contact in your CCR. According to the State Board and EPA guidelines, the designated contact person should be someone from your system. While we are always happy to clarify questions about AVEK water, we do not have the specific information necessary to answer questions about your water, blending practices or distribution systems.

Respectfully,

Jordan Wray
Laboratory Director

6500 WEST AVENUE N • PALMDALE, CALIFORNIA 93551
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The mission of AVEK is to deliver reliable, sustainable and high quality supplemental water to the region in a cost-effective and efficient manner.

Antelope Valley-East Kern Water Agency

2022 Annual Water Quality Report

We are pleased to provide you with this year's Annual Water Quality Report. We want to keep you informed about the excellent water we have delivered to you over the past year. Our goal is, and always has been, to provide to you a safe supply of drinking water.

Our main water source is the State Water Project, California Aqueduct. The State Water Resources Control Board (State Board) has assessed the vulnerability of the State Water Project as to possible contaminating activities. The assessment's description and discussion of vulnerability is as follows:

"The California Aqueduct originates at the Sacramento-San Joaquin Delta at Clifton Court Forebay. Water in the Delta originates in the Sacramento River watershed, the San Joaquin watershed, and the watershed drainage from the Mokelumne River, Stanislaus River, Merced River and several smaller rivers that drain the eastern slopes of the Sierra Nevadas. Located in these drainage areas are a broad variety of potential sources of contamination including municipal, industrial and agricultural activities. Also influencing the quality of water pumped from the Delta is the impact of the estuarial nature of the Delta and the naturally occurring salt-water intrusion which is dependent to a large extent on the inflow from the contributing rivers.

The possible contaminating activities present within the California Aqueduct watershed are described in the State Water Project Watershed Sanitary Survey conducted by the California Department of Water Resources and their consultants in 1990 and updated in 2016."

Our alternative water source is State Water Project water which has been stored in the aquifer at various underground storage facilities (i.e. "water banks") and is recovered for water quality purposes or supply purposes during times of drought. The vulnerability of the facilities was assessed in 2014 as follows:

"The wells are most vulnerable to contaminants from activities such as herbicide use along transportation corridors or road right-of-ways; agricultural/irrigation wells; irrigated crops; application of fertilizer, pesticides, and herbicides; agricultural drainage; and the raw State Water Project surface water used to recharge the groundwater basins. Other potential contaminating activities include the potential presence of certain unknown activities such as unregistered underground storage tanks."

A copy of these assessments may be viewed at, Antelope Valley-East Kern Water Agency, 6450 West Avenue N, Palmdale, CA 93551.

If you have any questions about this report or the Antelope Valley-East Kern Water Agency, please contact Jordan Wray, Laboratory Director at 661-943-3201. We want our valued customers to be informed about our Water Agency. If you want to learn more, please attend any of our regularly scheduled Board meetings. They are held on the second and fourth Tuesday of every month, 5:30 PM, at the Antelope Valley-East Kern Water Agency Office, 6450 West Avenue N, Palmdale, CA, 93551.

Antelope Valley-East Kern Water Agency routinely monitors for contaminants in our drinking water according to Federal and State laws. The table in this report, "2022 Annual Water Quality Report", shows the results of our monitoring for the period of January 1st to December 31st, 2022.

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. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

We have learned through our monitoring and testing that some contaminants have been detected, however, we are proud to report that our drinking water meets all State and Federal requirements.

Total Coliform: Water systems are required to meet a strict standard for coliform bacteria. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If the standard is exceeded, the water supplier must notify the public by newspaper, television or radio.

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. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Antelope Valley-East Kern Water Agency
2022 Annual Water Quality Report - Kern County System

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: **0.19 NTU**

Percentage of samples < 0.30 NTU: **100%**

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 performance. 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**

MICROBIOLOGICAL CONTAMINANTS										
Type of Sample(s)	Parameter	Sampling Frequency	MCL	No. of Months in Violation		System Results				
				Range	Average	Range	Average	Range	Average	
Distribution Distribution	Total Coliform Bacteria	56 - 70 / mo	5% positive	None	None	0%	0%			
	E. coli	56 - 70 / mo	1 pos. with 2 TC pos.	None	None	0%	0%			
INORGANIC CONTAMINANTS										
RESULTS										
Parameter	Units	MCL	DLR	PHG	Rosamond Plant		Effluent (CWR)		Water Bank	
					Plant Effluent (CWR)	Raw Influent (Sources)	Range	Average	Range	Average
Aluminum	µg/L	1000	50	600	130	ND	ND			
Antimony	µg/L	6	6	1	ND	ND	ND			
Arsenic	µg/L	10	2	0.004	3.6	3.2-8.1	5.0			
Barium	µg/L	1000	100	2000	58	30-58	44	2.5-7.3	5.5	5.2
Beryllium	µg/L	4	1	1	ND	ND	ND			
Cadmium	µg/L	5	1	0.04	ND	ND	ND			
Chromium (Total)	µg/L	50	10		5.1	5.1-15	11			
Chromium (Hexavalent)	µg/L	*	1	0.02	5.8	5.4-14	8.6			
Cyanide	µg/L	150	100	150	ND	ND	ND			
Fluoride	mg/L	2	0.1	1	0.28	0.29-0.36	0.32			
Mercury	µg/L	2	1	1.2	ND	ND	ND			
Nickel	µg/L	100	10	12	ND	ND	ND			
Nitrate (as N)	mg/L	10	0.4	10	2.5	1.2-2.5	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	µg/L	6	2	1	ND	ND	ND	ND		ND
Selenium	µg/L	50	5	30	ND	ND	ND			
Thallium	µg/L	2	1	0.1	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.										

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

Antelope Valley-East Kern Water Agency
2022 Annual Water Quality Report - Kern County System

GENERAL PHYSICAL AND SECONDARY STANDARDS

RESULTS

Parameter	Units	MCL	DLR	Rosamond Plant		Effluent (CWR)		Water Bank	
				Plant Effluent (CWR)	Raw Influent (Sources)	Range	Average	Range	Average
Aluminum	µg/L	1000	50	Range 93-250	Range ND	ND	ND		
Calcium	mg/L	no standard							
Chloride	mg/L	250							
Color	Units	15		<5		63-97	74		
Copper	µg/L	1000	50			40-53	47		
Foaming Agents (MBAS)	mg/L	0.5				<5	<5		
Hardness (Total) as CaCO3	mg/L	no standard				ND	ND		
Iron	µg/L	300	100			ND	ND		
Magnesium	mg/L	no standard				91-200	140		
Manganese	µg/L	50	20			ND	ND		
Odor @ 60 C	Units	3				5.7-9.7	8.3		
pH	Units	no standard	1	<1		ND	ND		
Silver	µg/L	100	10	7.3-7.9		<1	<1		
Sodium	mg/L	no standard				7.7-8.6	8.0		
Specific Conductance	µmhos	900				ND	ND		
Sulfate	mg/L	250	0.5			ND-44	15		
Thiocarb (Bolero)	µg/L	1	1			420-580	500		
Methyl tert-Butyl Ether (MTBE)	µg/L	5	3			47-58	53		
Total Dissolved Solids	mg/L	500				ND	ND		
Turbidity	Units	5		0.01-0.20		ND	ND		
Zinc	µg/L	5000	50			240-320	290		
Total Alkalinity (as CaCO3)	mg/L	no standard				0.02-1.1	0.10		
Bicarbonate Alkalinity(as HCO3)	mg/L	no standard				ND	ND		
Carbonate (as CO3)	mg/L	no standard				120-150	140		
Hydroxide (as OH)	mg/L	no standard				ND-150	50		

RADIOLOGICAL CONTAMINANTS

RESULTS

Parameter	Units	MCL	DLR	PHG	Rosamond Plant		Water Bank	
					Raw Influent Sources	Average	Range	Average
Gross Alpha	pCi/L	15	3			ND		
Gross Beta	pCi/L	50	4					
Strontium 90	pCi/L	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		

VOLATILE ORGANIC CONTAMINANTS

RESULTS

Parameter	Units	MCL	DLR	PHG	Rosamond Plant		Water Bank	
					Raw Influent (Sources)	Average	Range	Average
1,1,1-Trichloroethane (1,1,1-TCA)	µg/L	200	0.5	1000		ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	1	0.5	0.1		ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	µg/L	5	0.5	0.3		ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	µg/L	5	0.5	3		ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	µg/L	6	0.5	10		ND	ND	ND
1,2,4-Trichlorobenzene	µg/L	5	0.5	5		ND	ND	ND
1,2-Dichlorobenzene (o-DCB)	µg/L	600	0.5	600		ND	ND	ND

**Antelope Valley-East Kern Water Agency
2022 Annual Water Quality Report - Kern County System**

Parameter	Units	MCL	DLR	PHG	Rosamond Plant Raw Influent (Sources)		Water Bank Wells	
					Range	Average	Range	Average
1,2-Dichloroethane (1,2-DCA)	µg/L	0.5	0.5	0.4	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	5	0.5	0.5	ND	ND	ND	ND
1,3-Dichloropropene (Total)	µg/L	0.5	0.5	0.2	ND	ND	ND	ND
1,4-Dichlorobenzene (p-DCB)	µg/L	5	0.5	6	ND	ND	ND	ND
Benzene	µg/L	1	0.5	0.15	ND	ND	ND	ND
Carbon tetrachloride	µg/L	0.5	0.5	0.1	ND	ND	ND	ND
cis-1,2-Dichloroethylene (c-1,2-DCE)	µg/L	6	0.5	100	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L				ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	µg/L	5	0.5	4	ND	ND	ND	ND
Ethylbenzene	µg/L	300	0.5	300	ND	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	µg/L	13	3	13	ND	ND	ND	ND
Monochlorobenzene (Chlorobenzene)	µg/L	70	0.5	70	ND	ND	ND	ND
Styrene	µg/L	100	0.5	0.5	ND	ND	ND	ND
Tetrachloroethylene (PCE)	µg/L	5	0.5	0.06	ND	ND	ND	ND
Toluene	µg/L	150	0.5	150	ND	ND	ND	ND
trans-1,2-Dichloroethylene (t-1,2-DCE)	µg/L	10	0.5	60	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L				ND	ND	ND	ND
Trichloroethylene (TCE)	µg/L	5	0.5	1.7	ND	ND	ND	ND
Trichlorofluoromethane (Freon11)	µg/L	150	5	1300	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)	µg/L	1200	10	4000	ND	ND	ND	ND
Vinyl Chloride (VC)	µg/L	0.5	0.5	0.05	ND	ND	ND	ND
Xylenes (Total)	µg/L	1750	0.5	1800	ND	ND	ND	ND

SYNTHETIC ORGANIC CHEMICALS

RESULTS

Parameter	Units	MCL	DLR (DL)	PHG	Raw Influent (Sources)		Water Bank Wells	
					Range	Average	Range	Average
Alachlor	µg/L	2	1	4	ND	ND		
Atrazine	µg/L	1	0.5	0.15	ND	ND		
Bentazon	µg/L	18	2	200	ND	ND		
Benzo(a)pyrene	µg/L	0.2	0.1	0.007	ND	ND		
Carbofuran	µg/L	18	5	0.7	ND	ND		
Chlordane	µg/L	0.1	0.1	0.03	ND	ND		
2,4-D	µg/L	70	10	20	ND	ND		
Dalapon	µg/L	200	10	790	ND	ND		
Dibromochloropropane (DBCP)	µg/L	0.2	0.01	0.0017	ND	ND		
Di(2-ethylhexyl)adipate	µg/L	400	5	200	ND	ND		
Di(2-ethylhexyl)phthalate	µg/L	4	3	12	ND	ND		
Dinoseb	µg/L	7	2	14	ND	ND		
Diquat	µg/L	20	4	6	ND	ND		
Endothall	µg/L	100	45	94	ND	ND		
Endrin	µg/L	2	0.1	0.3	ND	ND		
Ethylene Dibromide (EDB)	µg/L	0.05	0.02	0.01	ND	ND		
Glyphosate	µg/L	700	25	900	ND	ND		
Heptachlor	µg/L	0.01	0.01	0.008	ND	ND		
Heptachlor Epoxide	µg/L	0.01	0.01	0.006	ND	ND		
Hexachlorobenzene	µg/L	1	0.5	0.03	ND	ND		
Hexachlorocyclopentadiene	µg/L	50	1	2	ND	ND		
Lindane	µg/L	0.2	0.2	0.032	ND	ND		
Methoxychlor	µg/L	30	10	0.09	ND	ND		
Molinate	µg/L	20	2	1	ND	ND		
Oxamyl	µg/L	50	20	26	ND	ND		
Pentachlorophenol	µg/L	1	0.2	0.3	ND	ND		
Picloram	µg/L	500	1	166	ND	ND		

Antelope Valley-East Kern Water Agency
2022 Annual Water Quality Report - Kern County System

Parameter	Units	MCL	DLR (DL)	PHG	Raw Influent (Sources) Range Average	Water Bank Wells Range Average
Polychlorinated Biphenyls	µg/L	0.5	0.5	0.09	ND	
Simazine	µg/L	4	1	4	ND	
Thiobencarb (Bolero)	µg/L	70	1	42	ND	
Toxophene	µg/L	3	1	0.03	ND	
2,3,7,8-TCDD (Dioxin)	pg/L	30	5	0.05	ND	
2,4,5-TP (Silvex)	µg/L	50	1	3	ND	
1,2,3-Trichloropropane	µg/L	0.005	0.005	0.0007	ND	

DISINFECTION RESIDUAL, PRECURSORS, and BYPRODUCTS

Type of Sample(s)	Parameter	Units	MCL/MRD/L	DLR	MRDLG	RESULTS Range Average
Distribution	Chlorine (as total Cl2)	mg/L				
Treated Water	Total Organic Carbon (TOC)	mg/L	4.0**		4	0.26-1.48 1.07
Source Water	Total Organic Carbon (TOC)	mg/L	Treatment Requirement	0.3		0.4-0.9 0.6
Distribution	Stage 2 D/DBP Rule Total Trihalomethanes	µg/L	80**	0.3		0.5-0.9 0.6
Distribution	Stage 2 D/DBP Rule Total Haloacetic Acids	µg/L	60**			14-25 20 #
Treated Water	Bromate	µg/L	10*	1.0		2.2-7.2 2.1 #

** 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: mg/L = milligrams per liter, parts per million (ppm)

µg/L = micrograms per liter, parts per billion (ppb)

µmhos = micromhos, a measure of specific conductance

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 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. MRDLGs 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

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. Assessment.

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.