

ANTELOPE VALLEY – EAST KERN WATER AGENCY

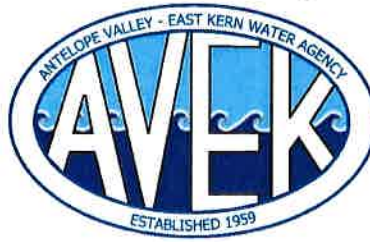
2025 ANNUAL WATER QUALITY REPORT

LOS ANGELES COUNTY SYSTEM

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March 10, 2026

Dear General Manager:

This is the 2025 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 2025 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.

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.

AVEK provides some treated water to our customers in Acton by way of an intertie with Palmdale Water District (PWD). AVEK monitors the treated water quality provided by PWD at our Acton Water Treatment Plant before it reaches our first customer. The results of this monitoring have been included in this report. If you have specific questions regarding the quality of the raw water treated by Palmdale Water District, please contact them directly.

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 answer 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
(661) 943-3201 • www.avek.org • info@avek.org

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

2025 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 2021.”

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, "2025 Annual Water Quality Report", shows the results of our monitoring for the period of January 1st to December 31st, 2025.

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).

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The Antelope Valley-East Kern Water Agency provides treated surface water as a source 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: **0.15**

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 groundwater as a 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: **0.65**

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
Distribution	Total Coliform Bacteria	152-190 / mo	5% positive	None	0%	0%
Distribution	Fecal Coliform/ <i>E. coli</i>	152-190 / mo	1 pos. with 2 TC pos.	None	0%	0%

INORGANIC CONTAMINANTS

Parameter	Units	MCL	DLR	PHG or (MCLG)	RESULTS											
					Acton Plant Effluent (CWR)		Eastside Plant Effluent (CWR)		Quartz Hill Plant Effluent (CWR)		Raw Influent (State Water Project)		Water Bank Effluent (CWR)		Wells	
					Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Aluminum	µg/L	1000	50	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Antimony	µg/L	6	6	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	µg/L	10	2	0.004	ND	ND	ND	ND	ND	2.0	3.8-5.9	4.8	2.6-8.8	4.4		
Asbestos	MFL	7	0.2													
Barium	µg/L	1000	100	2000	23	26	26	26	33							
Beryllium	µg/L	4	1	1	ND	ND	ND	ND	ND							
Cadmium	µg/L	5	1	0.04	ND	ND	ND	ND	ND							
Chromium (Total)	µg/L	50	10		ND	ND	ND	ND	ND							
Cyanide	µg/L	150	100	150	ND	ND	ND	ND	ND							
Fluoride	mg/L	2	0.1	1	0.12	0.05	0.06	0.06	0.08							
Hexavalent Chromium	µg/L	10	0.1	0.02	0.08	0.14	0.079	0.079	0.06				0.52-5.9	3.1		
Mercury	µg/L	2	1	1.2	ND	ND	ND	ND	ND							
Nickel	µg/L	100	10	12	ND	ND	ND	ND	ND							
Nitrate (as N)	mg/L	10	0.4	10	ND	0.15	10	0.17	0.21				0.67-6.0	3.6		
Nitrite (as N)	mg/L	1	0.4	1	ND	ND	ND	ND	ND							
Perchlorate	µg/L	6	1	1	ND	ND	ND	ND	ND				ND-1.2	0.38		
Selenium	µg/L	50	5	30	ND	2.0	2.2	2.2	ND							
Thallium	µg/L	2	1	0.1	ND	ND	ND	ND	ND							

GENERAL PHYSICAL AND SECONDARY STANDARDS

Parameter	Units	MCL	DLR	RESULTS												
				Acton Plant Effluent (CWR)		Eastside Plant Effluent (CWR)		Quartz Hill Plant Effluent (CWR)		Raw Influent (State Water Project)		Water Bank Wells				
				Range	Average	Range	Average	Range	Average	Range	Average	Range	Average			
Aluminum	µg/L	1000	50		ND	ND	ND	ND	ND							
Calcium	mg/L	no standard		22	18	16	17									
Chloride	mg/L	250		110	130	120	96									

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Parameter	Units	MCL	DLR	Acton Plant Effluent (CWR)		Eastside Plant Effluent (CWR)		Quartz Hill Plant Effluent (CWR)		Raw Influent (State Water Project)		Water Bank Wells	
				Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Color	Units	15		<5	<5	<5	<5	<5	<5		10	<5	<5
Copper	µg/L	1000	50		1.1		2.1		2.7		13		
Foaming Agents (MBAS)	mg/L	0.5			ND		ND		ND		ND		
Hardness (Total) as CaCO3	mg/L	no standard			100		100		95		93		
Iron	µg/L	300	100		ND		ND		ND		18		
Magnesium	mg/L	no standard			11		14		13		12.0		
Manganese	µg/L	50	20		ND		ND		ND		ND		
Odor @ 60 C	Units	3	1	<1	<1	<1	<1	<1	<1		<1		
pH	Units	no standard		7.1-7.7	7.4	6.6-8.1	7.0	6.7-7.7	7.0	7.8-9.6	8.3	7.6-7.9	7.7
Silver	µg/L	100	10		ND		ND		ND		ND		
Sodium	mg/L	no standard			59		72		66		59		
Specific Conductance	µmhos	1600			530		610		560		510		
Sulfate	mg/L	250	0.5		24		51		45		28		
Thiobencarb (Boloro)	µg/L	1	1		ND		ND		ND		ND		
Methyl tert-Butyl Ether (MTBE)	µg/L	5	3		ND		ND		ND		ND		
Total Dissolved Solids	mg/L	1000			300		350		310		280		
Turbidity	Units	5		0.07-0.19	0.12	0.06-0.17	0.02	0.02-0.14	0.05	0.32-9.79	1.55	0.02-0.25	0.05
Zinc	µg/L	5000	50		460		470		630		ND		
Total Alkalinity (as CaCO3)	mg/L	no standard			69		49		52	50-88	71		
Bicarbonate Alkalinity(as HCO3)	mg/L	no standard			69		49		52		68		
Carbonate (as CO3)	mg/L	no standard			ND		ND		ND		ND		
Hydroxide (as OH)	mg/L	no standard			ND		ND		ND		ND		

RADIOLOGICAL CONTAMINANTS

Parameter	Units	MCL	DLR	PHG	RESULTS		
					Raw Influent (State Water Project)	Water Bank Wells	
					Range	Average	
Gross Alpha	pCi/L	15	3			6.1	
Gross Beta	pCi/L	50	4		ND	ND	
Strontium 90	pCi/L	8	2	0.35		ND	
Tritium	pCi/L	20,000	1,000	400		ND	
Uranium	pCi/L	20	1	0.43	0.67+/- 0.00	ND	
Radium 228	pCi/L		1	0.019		ND	
Radium 226	pCi/L		1	0.05		ND	

VOLATILE ORGANIC CONTAMINANTS

Parameter	Units	MCL	DLR	PHG	RESULTS		
					State Water Project	Water Bank Wells	
					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
1,2-Dichloroethane (1,2-DCA)	µg/L	0.5	0.5	0.4	ND	ND	ND
1,2-Dichloropropane	µg/L	5	0.5	0.5	ND	ND	ND
1,3-Dichloropropene (Total)	µg/L	0.5	0.5	0.2	ND	ND	ND
1,4-Dichlorobenzene (p-DCB)	µg/L	5	0.5	6	ND	ND	ND
Benzene	µg/L	1	0.5	0.15	ND	ND	ND
Carbon tetrachloride	µg/L	0.5	0.5	0.1	ND	ND	ND
cis-1,2-Dichloroethylene (c-1,2-DCE)	µg/L	6	0.5	100	ND	ND	ND
cis-1,3-Dichloropropene	µg/L				ND	ND	ND
Dichloromethane (Methylene Chloride)	µg/L	5	0.5	4	ND	ND	ND
Ethylbenzene	µg/L	300	0.5	300	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	µg/L	13	3	13	ND	ND	ND
Monochlorobenzene (Chlorobenzene)	µg/L	70	0.5	70	ND	ND	ND
Styrene	µg/L	100	0.5	0.5	ND	ND	ND

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Parameter	Units	MCL	DLR	PHG	State Water Project		Water Bank Wells	
					Average	Range	Range	Average
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

Parameter	Units	MCL	DLR (DL)	PHG	RESULTS			
					State Water Project		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	
Polychlorinated Biphenyls	µg/L	0.5	0.5	0.09	ND		ND	
Simazine	µg/L	4	1	4	ND		ND	
Thiobencarb (Bolero)	µg/L	70	1	42	ND		ND	
Toxaphene	µg/L	3	1	0.03	ND		ND	
2,3,7,8-TCDD (Dioxin)	pg/L	30	5	0.05	ND		ND	
2,4,5-TP (Silvex)	µg/L	50	1	3	ND		ND	
1,2,3-Trichloropropane	µg/L	0.005	0.005	0.0007	ND		ND	

DISINFECTION RESIDUAL, PRECURSORS, and BYPRODUCTS

Type of Sample(s)	Parameter	Units	MCL/MRDL	DLR	MRDLG	RESULTS	
						Range	Average
Distribution	Chlorine (as total Cl2)	mg/L	4.0		4	0.17-2.17	1.08
Treated Water	Total Organic Carbon (TOC)	mg/L	Treatment Requirement	0.3		1.2-3.3	2.2
State Water Project	Total Organic Carbon (TOC)	mg/L	Treatment Requirement	0.3		2.0-5.2	3.3
Distribution	Stage 2 D/DBP Rule Total Trihalomethanes	µg/L	80**	0.5		19-110	62 #
Distribution	Stage 2 D/DBP Rule Total Haloacetic Acids	µg/L	60**	0.5		4.0-23	18 #
Treated Water	Bromate	µg/L	10*	1.0			2.5

** 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.

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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)

pg/L = picograms per liter, parts per quadrillion (ppq)

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 exceeded 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.