

# ANNUAL WATER QUALITY REPORT

Reporting Year 2024



*Presented By*  
**Arvin Community Services District**

PWS ID#: CA1510001



## Our Commitment

We are pleased to present to you this year's annual water quality report. This report is a snapshot of last year's water quality covering all testing performed between January 1 and December 31, 2024. Included are details about your source of water, what it contains, and how it compares to standards set by regulatory agencies. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water and providing you with this information because informed customers are our best allies.

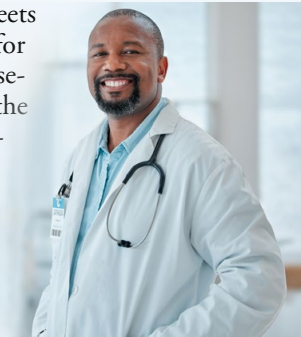
## Where Does My Water Come From?

Arvin Community Services District (CSD) customers are fortunate because we enjoy an abundant water supply from seven groundwater wells. In 2020 the Arsenic Mitigation Project completed six new wells (13, 14, 16, 17, and 18). These wells were drilled to 1,000 feet, with an average depth to water of 400 feet. Together, these wells can produce up to 6,350 gallons per minute. Well 12 was replaced by the U.S. EPA in 2021 due to the Brown and Bryan Superfund Site and produces 1,200 gallons per minute. Well 10, located at the ski lakes, pumps directly into our million-gallon storage tank at 500 gallons per minute, at night to reduce energy costs. Well 13 is the only well that has a granulated active carbon filtration system for 1,2,3-trichloropropane (1,2,3-TCP). No other wells required any type of treatment as of 2024.

## Important Health Information

While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The U.S. Environmental Protection Agency (U.S. EPA) continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and linked to other health effects such as skin damage and circulatory problems.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 and Prevention (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 at (800) 426-4791 or [epa.gov/safewater](http://epa.gov/safewater).



## Water Treatment Process

As of 2024, Arvin CSD does not have any need for water treatment for Wells 10, 12, 14, 16, 17, and 18 because they meet state regulations for safe drinking water. Well 13 has a two-tank granular activated carbon filtration system to remove 1,2,3 TCP. Activated carbon is a porous material that removes organic compounds from water by a process known as adsorption. Organic molecules and 1,2,3 TCP are attracted and bound to the surface of the pores of the activated carbon as the water is passed through. Test ports are installed in the tank identifying when it is time to change the carbon.

Chlorine is the only chemical added to your drinking water. This is done as a precaution against any bacteria that may still be present. We carefully monitor the amount of chlorine, adding the lowest quantity necessary to protect the safety of your water and meet state standards without compromising taste.

## Water Conservation Tips

You can play a role in conserving water and save yourself money in the process by becoming conscious of the amount of water your household is using and looking for ways to use less whenever you can. It is not hard to conserve water. Here are a few tips:

- Automatic dishwashers use three to six gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- Turn off the tap when brushing your teeth.
- Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.
- Check your toilets for leaks by putting a few drops of food coloring in the tank. Watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from an invisible toilet leak. Fix it and you save more than 30,000 gallons a year.
- Use your water meter to detect hidden leaks. Simply turn off all taps and water-using appliances. Then check the meter after 15 minutes. If it moved, you have a leak.

**QUESTIONS?** For more information about this report, or for any questions relating to your drinking water, please call Raul Barraza Jr., General Manager, at (661) 854-2127.

## Lead in Home Plumbing

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. Arvin CSD is responsible for providing high-quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter certified by an American National Standards Institute-accredited certifier to reduce lead is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure it is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling does not remove lead from water.

Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, or doing laundry or a load of dishes. If you have a lead or galvanized service line requiring replacement, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish to have it tested, contact General Manager Raul Barraza Jr. at (661) 854-2127. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at [epa.gov/safewater/lead](http://epa.gov/safewater/lead).

To address lead in drinking water, public water systems were required to develop and maintain an inventory of service line materials by October 16, 2024. Developing an inventory and identifying the location of lead service lines (LSL) is the first step for beginning LSL replacement and protecting public health. The lead service inventory may be accessed at [arvincsd.com/arvin-csd-completes-its-water-service-line-inventory-arvin-csd-completa-su-inventario-de-lineas-de-servicio-de-agua](http://arvincsd.com/arvin-csd-completes-its-water-service-line-inventory-arvin-csd-completa-su-inventario-de-lineas-de-servicio-de-agua). Please contact us if you would like more information about the inventory or any lead sampling that has been done.

## What's a Cross-Connection?

Cross-connections that contaminate drinking water distribution lines are a major concern. A cross-connection is formed at any point where a drinking water line connects to equipment (boilers), systems containing chemicals (air-conditioning systems, fire sprinkler systems, irrigation systems), or water sources of questionable quality. Cross-connection contamination can occur when the pressure in the equipment or system is greater than the pressure inside the drinking water line (backpressure). Contamination can also occur when the pressure in the drinking water line drops due to fairly routine occurrences (main breaks, heavy water demand), causing contaminants to be sucked out from the equipment and into the drinking water line (backsiphonage).

Outside water taps and garden hoses tend to be the most common sources of cross-connection contamination at home. The garden hose creates a hazard when submerged in a swimming pool or attached to a chemical sprayer for weed killing. Garden hoses that are left lying on the ground may be contaminated by fertilizers, cesspools, or garden chemicals. Improperly installed valves in your toilet could also be a source of cross-connection contamination.

Community water supplies are continuously jeopardized by cross-connections unless appropriate valves, known as backflow prevention devices, are installed and maintained. We have surveyed industrial, commercial, and institutional facilities in the service area to make sure that potential cross-connections are identified and eliminated or protected by a backflow preventer. We also inspect and test backflow preventers to make sure that they provide maximum protection. For more information on backflow prevention, contact the Safe Drinking Water Hotline at (800) 426-4791.

## Tap vs. Bottled

Thanks in part to aggressive marketing, the bottled water industry has successfully convinced us all that water purchased in bottles is a healthier alternative to tap water. However, according to a four-year study conducted by the Natural Resources Defense Council (NRDC), bottled water is not necessarily cleaner or safer than most tap water. In fact, about 40 percent of bottled water is actually just tap water, according to government estimates.

The FDA is responsible for regulating bottled water, but these rules allow for less rigorous testing and purity standards than those required by the U.S. EPA for community tap water. For instance, the high mineral content of some bottled waters makes them unsuitable for babies and young children. Further, the FDA completely exempts bottled water that's packaged and sold within the same state, which accounts for about 70 percent of all bottled water sold in the United States.

People spend 10,000 times more per gallon for bottled water than they typically do for tap water. If you get your recommended eight glasses a day from bottled water, you could spend up to \$1,400 annually. The same amount of tap water would cost about 49 cents. Even if you installed a filter device on your tap, your annual expenditure would be far less than what you'd pay for bottled water. For a detailed discussion on the NRDC study results, visit [nrdc.org/stories/bottled-water-vs-tap-water](http://nrdc.org/stories/bottled-water-vs-tap-water).



## Test Results

Our water is monitored for many different kinds of substances on a very strict sampling schedule, and the water we deliver must meet specific health standards. Here, we only show those substances that were detected in our water (a complete list of all our analytical results is available upon request). Remember that detecting a substance does not mean the water is unsafe to drink; our goal is to keep all detects below their respective maximum allowed levels.

The state recommends monitoring for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data is included, along with the year in which the sample was taken.

We participated in the fifth stage of the U.S. EPA's Unregulated Contaminant Monitoring Rule (UCMR5) program by performing additional tests on our drinking water. UCMR5 sampling benefits the environment and public health by providing the U.S. EPA with data on the occurrence of contaminants suspected to be in drinking water to determine if it needs to introduce new regulatory standards to improve drinking water quality. Unregulated contaminant monitoring data is available to the public, so please feel free to contact us if you are interested in obtaining that information. If you would like more information on the U.S. EPA's Unregulated Contaminant Monitoring Rule, please call the Safe Drinking Water Hotline at (800) 426-4791.

### REGULATED SUBSTANCES

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]	PHG (MCLG) [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
<b>1,2,3-Trichloropropane</b> [1,2,3-TCP] (ppt)	2024	5	0.7	0.015 <sup>1</sup>	ND–0.027 <sup>1</sup>	No	Discharge from industrial and agricultural chemical factories; Leaching from hazardous waste sites; Cleaning and maintenance solvent, paint and varnish remover, and degreasing agent; By-product from production of other compounds and pesticides
<b>Arsenic</b> (ppb)	2024	10	0.004	6.09	2.9–10	No	Erosion of natural deposits; Runoff from orchards; Glass and electronics production wastes
<b>Dibromochloropropane</b> [DBCP] (ppt)	2024	200	3	ND	NA	No	Banned nematocide that may still be present in soils due to runoff/leaching from former use on soybeans, cotton, vineyards, tomatoes, and tree fruit
<b><i>E. coli</i> (State Revised Total Coliform Rule)</b> (positive samples)	2024	0	(0)	0	NA	No	Human and animal fecal waste
<b><i>E. coli</i> [at the groundwater source]</b> (positive samples)	2024	NA	0	0	NA	No	Human and animal fecal waste in untreated groundwater
<b>Fluoride</b> (ppm)	2024	2.0	1	0.403	0.36–0.44	No	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories
<b>Gross Alpha Particle Activity</b> (pCi/L)	2024	15	(0)	2.22	1.51–2.61	No	Erosion of natural deposits
<b>Nitrate [as nitrate]</b> (ppm)	2024	45	45	0.772	ND–3.4	No	Runoff and leaching from fertilizer use; Leaching from septic tanks and sewage; erosion of natural deposits
<b>Tetrachloroethylene [PCE]</b> (ppb)	2024	5	0.06	ND	NA	No	Discharge from factories, dry cleaners, and auto shops (metal degreaser)

## Definitions

**MCL (Maximum Contaminant Level):** 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 (SMCLs) are set to protect the odor, taste, and appearance of drinking water.

**MCLG (Maximum Contaminant Level Goal):** 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. EPA.

**MRDL (Maximum Residual Disinfectant Level):** 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.

**MRDLG (Maximum Residual Disinfectant Level Goal):** 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.

**NA:** Not applicable.

**ND (Not detected):** Indicates that the substance was not found by laboratory analysis.

**NS:** No standard.

**pCi/L (picocuries per liter):** A measure of radioactivity.

**PDWS (Primary Drinking Water Standard):** MCLs and MRDLs for contaminants that affect health, along with their monitoring and reporting requirements and water treatment requirements.

**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 EPA.

**ppb (parts per billion):** One part substance per billion parts water (or micrograms per liter).

**ppm (parts per million):** One part substance per million parts water (or milligrams per liter).

**ppt (parts per trillion):** One part substance per trillion parts water (or nanograms per liter).

## SECONDARY SUBSTANCES

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	SMCL	PHG (MCLG)	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Chloride (ppm)	2024	500	NS	136.5	41–310	No	Runoff/leaching from natural deposits; Seawater influence
Copper (ppm)	2024	1.0	NS	0.0103	ND–0.031	No	Internal corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Iron (ppb)	2024	300	NS	480	ND–1,300	No	Leaching from natural deposits; Industrial wastes
Manganese (ppb)	2024	50	NS	11	ND–18	No	Leaching from natural deposits
Sulfate (ppm)	2024	500	NS	38	28–46	No	Runoff/leaching from natural deposits; Industrial wastes

## UNREGULATED SUBSTANCES<sup>2</sup>

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH	TYPICAL SOURCE
Sodium (ppm)	01/24/2024	107	55–180	Naturally occurring

<sup>1</sup> These samples are from raw water (before treatment) from Well 13, which has had treatment on-site since 2018. It is the only well that requires it. All other wells tested below the MCL.

<sup>2</sup> Unregulated contaminant monitoring helps the U.S. EPA and SWRCB determine where certain contaminants occur and whether the contaminants need to be regulated.

## Substances That Could Be in 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, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic Contaminants, such as salts and metals, which 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, which 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, which 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, which can be naturally occurring or the result of oil and gas production and mining activities.

To ensure that tap water is safe to drink, the U.S. EPA and the State Water Resources Control Board (SWRCB) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

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 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 at (800) 426-4791.

## PFAS and PFOS Monitoring

In 2024 Arvin CSD conducted testing for per- and polyfluoroalkyl substances (PFAS), including perfluorooctane sulfonate (PFOS), as part of our commitment to ensuring safe and high-quality drinking water. We are pleased to report that these substances were not found in our water supply at levels above laboratory detection limits. We will continue to monitor for these and other emerging contaminants in accordance with state and federal guidelines to protect public health.

## Community Participation

You are invited to participate in our public forum and voice any concerns you may have about your drinking water. Our board of directors meetings are held the first and third Monday of each month at 6:00 p.m. at the Arvin Community Services District office, located at 309 Campus Drive.

