



www.aromaswaterdistrict.org

The Aromas Water District is a non-profit Multi-County Special District governed by a Board of Directors that consists of five elected members of the AWD community, each serving a four-year term. AWD was formed in 1959 and today we serve 972 connections in both Monterey and San Benito Counties. Aromas Water District Mission Statement: The Aromas Water District is dedicated to providing a reliable supply of high quality water.

İEste informe contiene información muy importante sobre su agua potable! Tradúzcalo ó hable con alguien que lo entienda bien, o llame a nuestra oficina: (831) 726-3155

We have been providing clean water to our unique and wonderful community for over 60 years! We take pride in providing you with a safe and dependable supply of drinking water. This annual report gives you information on the Aromas Water District's water quality monitoring completed during January 1, 2022 to December 31, 2022. It includes details about where your water comes from, what it contains and how it complies to stringent Federal and State Standards.

We are pleased to report that our water meets all drinking water standards.

## **General Manager's Corner**

"Don't dwell on what went wrong. Instead, focus on what to do next. Spend your energies on moving forward..." – Denis Waitley

As one year ends and another begins, there is always the temptation to look back, to reflect, or to evaluate past actions. This can be a healthy practice, as long as one does not get stuck in the, "...would-a, could-a, should-a..." trap. Being trapped in the past does not allow a person, a business, or even a water district to grow and move forward. In 2022, circumstances allowed the Aromas Water District (District) to move forward, and we plan on keeping that momentum into 2023.

The District moved forward with a large annexation of the Cole Road and Rocks Road areas. Now, this process has a long and complicated explanation – suffice it to say that these areas can now receive District water (if they choose), where before the annexation effort, they could not. This was great news for folks who, at times, found it challenging to get water in the same fashion as they had in the past.

The District also set forth to augment your water supply by drilling an additional production well. This new well would improve the District's drought resilience and improve the water system's reliability, thus maintaining sustainability into the future. Luckily, the District went the conservative route and drilled a test well first, to make sure the conditions were right to develop a production well. The test well indicated that the District should look for an alternate site. We are looking, and plan on drilling another test well in a few months, hoping this one comes out productive. As the quote above says, "we are moving forward…" The District moved forward with its commitment to alternative energy sources by outfitting the main office facility with solar panels and a battery backup system; outfitting the office with this system was a commitment mentioned last year, and it has been completed. Remember, our commitment to alternative energy started with the District utilizing solar power to run a production well and booster pumps for a couple of our pressure zones back in mid-2015.

The aforementioned solar power comes from a 94-kW solar field that is in its eighth year of successful operation. This alternative energy source on Carpenteria Road has generated enough energy this past year to offset over \$35,000 in pumping power costs; this savings is directly passed on to you the customer, by keeping our rates as low as possible while maintaining our robust and efficient system..

For those of you who want to keep current with the District and its progress moving forward, our Board of Directors meets at 7:00pm on the Fourth Tuesday of each month, currently being held in person and on Zoom. These are public meetings, so please know you are always welcome to attend; virtually, or in person, depending on your current circumstances.

You can always find helpful up-to-date information regarding the District on our website: AromasWaterDistrict.org. Thanks for doing your part to conserve water and preserve our water supply.

## Best regards Robert Johnson, General Manager

## \* \* \* \* \* \* Beginning of Water Quality Report \* \* \* \* \*

## **GENERAL STATEMENT ON SOURCES OF CONTAMINANTS**

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, reservoirs, ponds, 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 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 applications, and septic systems.
- *Radioactive contaminants,* that can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the California State Water Resources Control Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. These regulations require reporting as found in the following tables.

## **DEFINITIONS AND TERMS USED IN THIS REPORT**

- **90<sup>th</sup> percentile:** Action Level is exceeded if the concentration in more than 10% of samples is greater than the AL.
- AL (Regulatory Action Level): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Level Detected: a flow-weighted calculation based on the percentage of water from each of the three wells.
- 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 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. Environmental Protection Agency (USEPA).
- Micromhos/cm: Measure of electrical conductivity.
- 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 in this situation.
- ND: Not Detectable at testing limit.
- pCi/L: (picocuries per liter): A measure of radioactivity.
- PDWS (Primary Drinking Water Standards): MCLs 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 Environmental Protection Agency.
- ppb: part per billion or micrograms per liter (μg/L)
- ppm: parts per million or milligrams per liter (mg/L)
- SDWS (Secondary Drinking Water Standards): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect health at the MCL levels.
- TT (Treatment Technique): A required process to reduce the level of a contaminant in drinking water.

The following tables list all of the drinking water contaminants that were detected during the most recent sampling for that 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. In these cases the most recent sample date is shown. The water delivered to customers was below all maximum contamination levels.

SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER (samples taken at customer's tap)										
Lead and Copper	Sample Date No. of samples collected		les til	percen- e level tected	No. sites ex- ceeding AL	AL	PHG	No. Schools Requesting Sampling	Typical Source of Contaminant	
Lead (ppb)	08/10/2	2 11		28.6	2	15	0.2	1 (2018)	Internal corrosion of household water plumbing systems; discharges from industrial manufac- turers; erosion of natural deposits	
Copper (ppm)	) 08/10/22 11		(	).105	0	1.3	0.3	NA	Internal corrosion of household plumbing sys- tems; erosion of natural deposits; leaching from wood preservatives	
LEAD SAMPLING OF DRINKING WATER IN CALIFORNIA SCHOOLS (AB 746/HSC 116277)										
Contaminant (CCR units)	MCL	PHG	Average	Range	Sample Date	Violation	Reque	r of Schools sting Lead	Typical Source	

							Jamping	
Lead (ppb)	AL=15	0.2	2.9	5 sites sampled. 0 sites > AL	8/23/18	No	1	Internal corrosion of household water plumbing systems; discharges from industrial manufactur- ers; erosion of natural deposits

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant					
Sodium (ppm)	10/30/2020	80.14	35-97	none	none	Salt present in the water and is generally naturally occurrin					
Hardness (ppm) 10/26/202		219.84	155-391	none none		Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring					
DETECTION OF CONTAMINANTS WITH A <u>PRIMARY</u> 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)	10/27/2020	1.94	1.4-2.0	10	0.004 (NA)	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes					
Barium (ppm)	10/27/2020	0.18	0.14-0.28	1	2 (NA)	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits					
Chromium (ppb)	10/27/2020	1.88	1.8-2.1	50	100 (NA)	Discharge from steel and pulp mills and chrome plating; ero sion of natural deposits					
Fluoride (ppm) AWD does not add Fluoride	10/27/2020	0.17	0.1-0.2	2.0	1 (NA)	Erosion of natural deposits; water additive which promote strong teeth; discharge from fertilizer and aluminum factor					
Nitrate (as N) (ppm)	7/11/2022	.31	04	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits					
DISTRIBUTION SYSTEM DISINFECTION BYPRODUCTS and DISINFECTION RESIDUALS											
Haloacetic acids (ppb)	07/11/2022	5	4-6	60	NA	Byproduct of drinking water disinfection					
Trihalomethanes (ppb)	07/11/2022	20	20	80	NA	Byproduct of drinking water disinfection					
Chlorine (ppm)	Daily	1.60 Running annual average	1.48-1.66	$4.0 \text{ as } \text{Cl}_2$	4.0 as Cl <sub>2</sub>	Drinking water disinfectant added for treatment					
DETECTION OF CONTAMINANTS WITH A <u>SECONDARY</u> DRINKING WATER STANDARD											
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant					
Iron (ppb)	12/5/2022	0	ND	300	NA	Leaching from natural deposits; industrial wastes					
Manganese (ppb)	12/5/2022	0	ND	50	NA	Leaching from natural deposits					
Turbidity (NTU)	10/27/2020	0.09	0.05-1.0	5	NA	Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality. H turbidity can hinder the effectiveness of disinfectants.					
Total Dissolved Solids [TDS] (ppm)	10/29/2020	398.43	354-514	1000	NA	Runoff/leaching from natural deposits					
Specific Conductance (micromhos/cm)	10/27/2020	732.09	683-860	1600	NA	Substances that form ions when in water; seawater influenc					
Chloride (nom)	10/27/2020	85.19	69.4-87.1	500	NA	Runoff/leaching from natural deposits; seawater influence					
Chloride (ppm)	10/21/2020	05.19	03.4-07.1	500							

		SAMPLING RESULTS FOR BACTERIA (COLIFORM, E. COLI)									
Highest No. of Detections			MCLG	Typical Source of Bacteria							
(In a mo.) 0	0	1 positive monthly sample	0	Naturally present in the environment							
(In 2022) 0	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive	0	Human and animal fecal waste							
(In 2022) 0	0	(a)	0	Human and animal fecal waste							
	of Detections (In a mo.) 0 (In 2022) 0 (In 2022) 0	Highest No. of Detectionsmonths in violation(In a mo.) 00(In 2022) 00(In 2022) 00	Highest No. of Detectionsmonths in violationMCL(In a mo.) 001 positive monthly sample(In 2022) 00A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive(In 2022) 00(a)	Highest No. of Detectionsmonths in violationMCLMCLG(In a mo.) 001 positive monthly sample0(In 2022) 00A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive0							

(a) Routine and repeat samples are total coliform-positive and either is E. coli-positive or system fails to take repeat samples following E. coli-positive routine sample or system fails to analyze total coliform-positive repeat sample for E. coli.

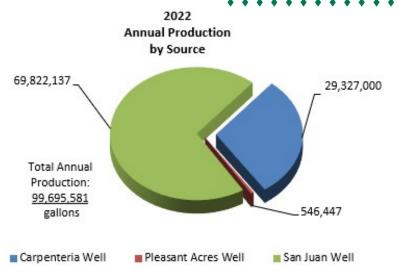
#### ADDITIONAL GENERAL INFORMATION ON DRINKING WATER

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 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. 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. 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). If Lead is 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. The Aromas Water District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking.

[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 <u>http://www.epa.gov/lead</u>.



#### LOCATION & TYPES OF WATER SOURCES IN USE

Your water comes from three ground water wells located within the Pajaro Basin:

- San Juan Well south of San Juan Road
- Carpenteria Well east of Carpenteria Road
- Pleasant Acres Well north of San Juan Road

#### **ITEMS OF INTEREST**

- The District does not fluoridate (does not add fluoride to) the water.
- No Perchlorate or Hexavalent Chromium VI was detected in the most recent samples.
- pH (acidity) ranges from 7.6 to 7.8 with a systemwide average of 7.7

## SOURCE WATER ASSESSMENTS

Assessments of the drinking water sources for the District were completed in 2002 and 2012. A source water assessment lists possible contaminating activities that might affect the quality of your water sources. The assessment also identifies the susceptibility of the District's drinking water wells to identified contamination threats.

The assessment of the aquifer feeding the Pleasant Acres Well identifies residential septic systems, other animal operations and agricultural irrigation as the greatest threat to the District's drinking water. The San Juan Well is in the same aquifer and in close proximity to the Pleasant Acres Well and, therefore, has the same threats. The Assessment of the aquifer feeding the Carpenteria Well identifies residential septic systems as the greatest threat to this well.

Copies of the Executive Summary for each assessment are available free-of-charge at the District office. The full reports are available upon request or can be viewed at the District's office located at 388 Blohm Ave., Aromas. For information about these Source Water Assessments, or your water quality in general, please contact the District at (831) 726-3155 or visit our web site at <u>www.aromaswaterdistrict.org</u>.

## \* \* \* \* \* \* End of Water Quality Report \* \* \* \* \* \* \*

## Californians know; Water Conservation, it's For Life....

Outdoor watering accounts for 30% to 60% total water use around the average home; here are some key steps to reduce outdoor water use:

- Reduce outdoor watering to twice per week. Many owners are surprised to learn that their plants can tolerate reduced watering. Reduce your watering schedule gradually to find the lowest amount that still keeps your plants healthy.
- Organic mulch reduces evaporation, keeps soil cool, conditions the soil and reduces weeds.
- Sun and wind evaporate water during the afternoon; so watering during the evening or morning hours allows the water to make it to the roots where your plants need it.
- Plant drought resistant trees and plants. Once these hardy plants get established they need only occasional watering which saves water every day for the life of the plant.
- Consider Xeriscaping or Dryscaping with native plants tolerant to the local climate, mixed with interesting features such as rocks and pebbles.

## For more tips please visit: www.saveourwater.com





See the WATER QUALITY section of our website for additional information, informational videos and water quality tips!!



## FREQUENTLY ASKED QUESTIONS ABOUT WATER COLOR

One of the more common complaints received by systems of our size is "discolored water". This section explains why discolored water is normal; why the water is still safe; and how the District investigates whether the cause is in our water mains or in the customer's private lines. Some tips are included to deal with color problems.

#### Q: My Water is white; is this safe to drink?

Occasionally customers run a glass of water from the faucet and it is white; this is simply microbubbles of air. Leave the glass of water on the counter for a minute and you will see the water return to clear as the bubbles rise and dissipate.

## <u>Q: What causes the water to be discolored (brown or yellowish)?</u>

**Investigating a color complaint.** Investigating whether the discoloration originates from the customer's private water lines, or from the District's water mains is the first step. Whenever AWD receives a complaint about discolored water the first check will be if there are other customers nearby with the same problem. If it is just one customer then the problem is likely in the customer's private water lines. AWD physically confirm this by pulling out the water meter to check the water color coming from the mains before it gets to the customer's pipes. If the water is clear at the meter, then the problem is in the private lines.

The top three reasons water becomes discolored in a customer's private lines are: (1) the customer's plumbing is made of galvanized (steel) pipes which are rusting on the inside. (2) the customer's hot water heater is rusting or has not been flushed for several months, and (3) naturally occurring sediment, iron and manganese has built up in the customer's lines and was stirred up by heavy usage in or around the home. While we cannot work on a customer's private water lines, we can often offer tips to help diagnose where the problem may be. More information can be found on our website, under the "Water Quality" section, then click on "Tips for Private Plumbing".

Water can also become discolored in the District's water mains. The water in our system comes from groundwater wells which pull in water at hundreds of gallons per minute, so some sediment (fine grained mud/clay) will also get pulled into the system; this is true for any system using groundwater wells. Most of the time the water in our mains moves slow enough that the sediment settles onto the inside lining of the mains. The sediment will sit in the mains until heavy water use in the area causes the water to flow so fast that it stirs up the sediment. The sediment is naturally occurring in the local groundwater. Some sediment may already be in the private lines since before 2009. Once in the system, most of it is filtered out or settles in the bottom of our ten storage tanks. The tanks are regularly cleaned; however, some sediment occasionally makes it into the water mains. When this happens many customers in the same area can have discolored water.

## Q: OK, but is it safe to drink?

Yes, it is safe. All the sediment or iron/manganese has been continuously disinfected by chlorine, and there is always a minimal amount of chlorine kept in the system at all times. Consuming water with iron and manganese does not have any health impacts, so while the water may be discolored it is still safe to use or drink.

## Q: But what if I still do not want to drink it?

It is **natural** that we do not want to drink discolored water, so here are a few options:

- You can fill a clear container and allow the water to settle/clear and then use the water off the top of the container
- You can use a simple filter at your drinking water tap (reverse osmosis is not necessary)
- You can flush the discolored water from the house. The location to flush will vary depending on how your plumbing is connected. Typical flushing tips are to fill an upstairs bathtub (with cold water) and also open an outside faucet on the far side of the house.
- If the colored water came from the District's water mains and we request that you flush it out of your home, simply call us at 726-3155 and we could apply a "flushing credit" to your account on the next monthly bill.

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The District is proud to have earned the **District Transpar**ency Certificate of Excellence, and the District of Distinction awards for transparency and excellence in governance from the Special District Leadership Foundation (SDLF).





www.aromaswaterdistrict.org P.O. Box 388, Aromas, CA 95004



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**RETURN SERVICE REQUESTED** 

Water Quality Annual Report

# 2022

Important information about your water is enclosed!

*İEste informe contiene información muy importante sobre su agua potable!* 

www.aromaswaterdistrict.org

## CONTACTING YOUR AROMAS WATER DISTRICT 388 Blohm Avenue Phone: (831) 726-3155 Fax: (831) 726-3951 Mail: P.O. Box 388 Aromas, 95004 or email admin@aromaswaterdistrict.org

Public participation is encouraged at our regularly scheduled Board meetings held the fourth Tuesday of every month, at 7:00 p.m. Please check our website for location details. General Manager, Robert Johnson can be reached at the office phone or email listed above. Office hours are Monday, Wednesday, and Friday 9:00am to 5:00pm. In case of an after-hours emergency, we have a 24-hour Answering Service available by following the directions in our voice message.

More information is available on our website; Board Agendas and Minutes, Board meeting access, Water Quality information, conservation tips and much more.