



Salt River Public Works Water System 2021 WATER QUALITY REPORT

WELCOME MESSAGE

The Salt River Pima-Maricopa Indian Community Public Works Department is pleased to provide you with the 2021 Consumer Confidence Report (CCR) for the Salt River Public Works Water System No. 090400109. This CCR, also known as a Water Quality Report, summarizes the results of tests and measurements performed at the SRPMIC water production facilities and throughout the water distribution system for the 2021 calendar year. These tests and measurements ensure that we deliver the highest quality of water to you. In reading the report, you will discover that your tap water met or surpassed all federal drinking water health standards as set by the Environmental Protection Agency. The Public Works Department is committed to providing the highest quality drinking water and in ensuring that the Community has adequate water sources to meet its current and future needs. We encourage you to read the report to learn more about the water delivered to your home. We value your trust in our ability to provide high quality water service. Thank you for allowing us the opportunity to serve you.

Sincerely,
Public Works Department
Salt River Pima-Maricopa Indian Community

PROJECTS WITHIN YOUR WATER SYSTEM

As the Community continues to grow, the SRPMIC Public Works Department, with support from SRPMIC Council, makes it a priority to continually work to improve your water infrastructure and facilities. In 2021, we completed replacing 2.3 miles of water mains on McDowell Rd, 1.0 mile on McKellips Rd, and 1.0 mile on McClintock Dr. In 2022, we will start replacing aging water mains on Pinchot Drive, Chaparral Rd, Alma School Rd and in the Victory Acres I subdivision. For new infrastructure in 2022, we will install a new water main on McDonald Drive between the 101 and May St.



WHERE DOES OUR WATER COME FROM?

Your water comes from three (3) ground water sources. Five additional ground water sources are supplied from Public Water System No. 090400703.

PROTECTING OUR LOCAL WATER SOURCES

The EPA conducted a sanitary survey for the water production facilities in 2016. During the survey, there was no deficiency that present a serious health risk. Next sanitary survey is scheduled later this year. The Public Works Department ensures the safety of your drinking water by continuously monitoring the treated water as required by drinking water regulations.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

To ensure the tap water is safe to drink, the EPA prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily indicate that the water poses a health risk. 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, in some cases, radioactive material, and substances results 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 be from wastewater treatment plants, septic systems, agricultural livestock operations, or wildlife;
- Inorganic contaminants, such as salts and metals, that can be naturally occurring or result from urban storm water 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 storm water runoff and residential uses;
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes, petroleum production, and can also come from gas stations, urban storm water runoff, septic systems; and
- Radioactive contaminants that can be naturally occurring or can be the result of oil and gas production and mining activities. 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 EPA's Safe Drinking Water Hotline (800-426-4791).

As the Federal regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include total coliform, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes (TTHMs), haloacetic acids (HAA5), radiological, and synthetic organic compounds.

SRPMIC- Water Quality Data for Year 2021

Table of Detected Substances

The table presented below depicts which compounds were detected in your drinking water. The EPA allows us to test for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

Substance	Violation Yes/No	Year Sampled	Average or Maximum	Unit	MCLG	Regulatory Limit (MCL, MRDL or AL)	Typical Source
			Range				
Disinfectant and Disinfection Byproducts							
Total Trihalomethanes	No	2021	7.9	ppb	NA	80 LRAA	Byproduct of drinking water disinfection
			4.5 -7.9				
Chlorine	No	2021	1.3	ppb	MRDLG = 4	MRDL= 4 RAA	Water additive used to control microbes
			0.7-1.5				
Lead and Copper ^(1, 2)							
Copper	No	2021	0.31	ppm	1.3	90% taps tested must not exceed 1.3	Internal corrosion of household water plumbing systems
			0 sites over AL				
Lead	No	2021	ND	ppb	0	90% of taps tested must not exceed 15	Internal corrosion of household water plumbing systems
			0 sites over AL				
Inorganics							
Arsenic	No	2021	3.2	ppb	0	10 Highest RAA	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
			ND-3.7				
Nitrate	No	2021	2.7	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
			0.59– 2.7				
Sodium	No	2020	160	ppm	NA	NA	Naturally occurring
			160				
Barium	No	2019	0.01	ppm	2	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
			ND-0.01				
Chromium	No	2019	14	ppb	100	100	Discharge from steel and pulp mills; Erosion of natural deposits
			7.8-14				
Fluoride	No	2019	1.7	ppm	4	4	Erosion of natural deposits; Discharge from fertilizer and aluminum factories
			0.6-1.7				
Selenium	No	2019	4.1	ppb	50	50	Discharge from petroleum and metal refineries; Erosion of natural deposits
			3.0-4.1				
Radiological Substance							
Uranium	No	2020	3.7	ppb	0	30	Erosion of natural deposits
Unregulated Substances							
Manganese	No	2019-2020	0.68	ppb	None	None	Naturally-occurring element
			ND-0.73				
Germanium	No	2019-2020	0.87	ppb	None	None	Naturally-occurring element
			ND- 0.93				
Haloacetic Acids HAA5	No	2019-2020	0.85	ppb	60	NA	By-product of drinking water disinfection
			0.35-1.37				
HAA6Br (six brominated haloacetic acids)	No	2019-2020	0.71	ppb	None	NA	By-product of drinking water disinfection
			0.35-1.1				
HAA9 (nine haloacetic acids)	No	2019-2020	1.09	ppb	None	NA	By-product of drinking water disinfection
			0.35-1.87				

Footnotes:

- The level presented represents the 90th percentile of the 31 sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, 31 samples were collected at your water system and the 90th percentile value was the 0.31 mg/L. The action level for copper was not exceeded at any of the sites tested.
- The level presented represents the 90th percentile of the 31 samples collected. The action level for lead was not exceeded at any of the sites tested.

Microbiological Testing

We are required to test your water regularly for signs of microbial contamination. Positive test results could lead to follow-up investigations called assessments and potentially the issuance of public health advisories. Assessments could lead to required corrective actions. The information below summarizes the results of those tests.

Calendar year	Sampling Requirements	Sampling Conducted (months)	Total <i>E. coli</i> Positive	Assessment Triggers	Assessments Conducted
2021	15 samples due monthly	12 out of 12	0	1 (Level 1 assessment)	1

During the year 2021, we were required to conduct one Level 1 Assessment. One Level 1 Assessment was completed.

Definitions

A Level 1 Assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

KEY WATER QUALITY TERMS

The following are definitions of key terms referring to standards and goals of water quality noted on the data table.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible.

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 allow for a margin of safety.

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 contamination.

LRAA (Locational Running Annual Average): The running annual average of sample data collected at one location.

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

RAA (Running Annual Average): Moving average based upon the previous twelve months (or four quarters) of monitoring data.

Milligrams per liter (mg/l): Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

Micrograms per liter (ug/l): Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

Non-Detects (ND): Laboratory analysis indicates that the constituent is not present.

NA: Not applicable

WHAT DOES THIS INFORMATION MEAN?

As you can see by the table, our system had no violations in 2021. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the EPA.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2021, our system was in compliance with applicable Federal drinking water operating, monitoring and reporting requirements.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Although our drinking water met or exceeded federal regulations, some people may be more vulnerable to disease causing microorganisms or pathogens 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 from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium*, *Giardia* and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

INFORMATION ON UNREGULATED CONTAMINANTS

Unregulated contaminants are those for which the EPA has not established drinking water standards. Monitoring assists the EPA in determining the occurrence of these compounds and whether or not regulation is warranted. MCLs (Maximum Contaminant Levels) and MCLGs (Maximum Contaminant Level Goals) have not been established for all unregulated contaminants. From September of 2019 through March 2020, the SRPMIC Public Works Department monitored for unregulated substances. All detected Unregulated Contaminant Monitoring Rule 4 (UCMR4) contaminants are shown in the table. A detection of a UCMR4 contaminant does not represent cause for concern, in itself. The implications of the detection should be judged considering health effects information, which is often still under development or being refined for unregulated contaminants. The full unregulated contaminant monitoring results is available upon request; please contact Public Works Department at 480-362-5600 for more information.

Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. It is possible that lead levels at your home in the community may be higher than at others because of plumbing materials used in your property. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Infants and young children are typically more vulnerable to lead in drinking water than the general population. You can minimize the potential for lead exposure, when your water has been sitting for several hours, by flushing your tap for 30 seconds to 2 minutes (or until the water temperature has changed) before using water for drinking or cooking. If you are concerned about lead levels in your water, you may wish to have your water tested. Additional information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the USEPA's Safe Drinking Water Hotline 800-426-4791, or at <https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water>.

- Saving water reduces the cost of energy required to pump water.
- Saving water lessens the strain on the water system during a dry spell or drought.

- 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 one of these otherwise invisible toilet leaks. Fix it and you can save more than 30,000 gallons a year.

You may also call the EPA's Safe Drinking Water Hotline for information about the Safe Drinking Water Act or EPA's other drinking water programs at 800-426-4791.

