Consumer Confidence Report for Calendar Year 2024

Este informe contiene informactión muy importante sobre el aqua usted bebe. Tradúscalo ó hable con alguien que lo entienda bien.

https://espanol.epa.gov/espanol/recursos-e-informacion-sobre-el-ccr-para-los-consumidores

Public Water System ID Number	Public Water System Name	
AZ0410112	City of Tucson Main System	
Contact Name and Title	**Phone Number**	**E-mail Address**
Water Quality & Pressure Concerns	520-791-5945	QualityAndPressure@tucsonaz.gov

We want our valued customers to be informed about their water quality. If you would like to learn more about public participation or to attend any of our regularly scheduled meetings, please contact **Tucson Water Public Information Office at 520-791-4331** for additional opportunity and meeting dates and times.

Drinking Water Sources

The sources of drinking water (both tap 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 pickup substances resulting from the presence of animals or from human activity.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water source(s):	Groundwater wells.

Consecutive Connection Sources

A public water system that receives some or all of its finished water from one or more wholesale systems by means of a direct connection or through the distribution system of one or more consecutive systems. Systems that purchase water from another system report regulated contaminants detected from the source water supply in a separate table.

PWS # AZ0410092, Marana Municipal provides us an emergency consecutive connection source of water. Tucson Water did not purchase water from Marana Municipal in 2024.

Source Water Assessment

- A designation of high vulnerability indicates there may be additional source water protection measures which can be implemented on the local level. This does not imply that the source water is contaminated, nor does it mean that contamination is imminent. Rather, it simply states that land use activities or hydrogeologic conditions exist that make the source water susceptible to possible future contamination. Further source water assessment information can be found on ADEQ's website: https://azdeq.gov/source-water-protection or email at sourcewaterprotection@azdeq.gov

Drinking Water Contaminants

Contaminants are any physical, chemical, biological, or radiological substance or matter in water. 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 occur naturally in the soil or groundwater or may 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, and septic systems.

Radioactive 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, and septic systems.

Vulnerable Population

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. In order to ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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.
More information about contaminants, their potential health effects, and the appropriate means to lessen the risk can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 800-426-4791 or visiting the website epa.gov/safewater.

Definitions

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 using the best available treatment technology.

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.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

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

Maximum residual disinfectant level goal or 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.

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.

Level 1 Assessment: 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.

Level 2 Assessment: A very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Lead Informational Statement:

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.

Tucson Water is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk.

Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water.

To address lead in drinking water, public water systems were required to develop and maintain an inventory of service line materials by Oct 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 viewed online at: 120Water - Public Water System Service Lines . Please contact us if you would like more information about the inventory or any lead sampling that has been done.
If you are concerned about lead in your water and wish to have your water tested, contact Water Quality and Pressure Concerns at 520-791-5945 or email QualityandPressure@tucsonaz.gov. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead.

Water Quality Data – Regulated Contaminants

The following are terms related to water quality data presented in this table:

Not Applicable (NA): Sampling was not completed because it was not required by regulation.

Not Detected (ND or <): Not detectable at reporting limit.

Minimum Reporting Limit (MRL): The smallest concentration of a substance that can be reliably measured by a given analytical method.

Millirems per year (MREM): A measure of radiation absorbed by the body.

Nephelometric Turbidity Units (NTU): Measure of water clarity.

Million fibers per liter (MFL): Measure of asbestos fibers.

Picocuries per liter (pCi/L): Measure of the radioactivity in water.

ppm: Parts per million or Milligrams per liter (mg/L), equal to 1/1000 of a gram.

ppb: Parts per billion or Micrograms per liter (µg/L), equal to 1000 ppm.

ppt: Parts per trillion or Nanograms per liter (ng/L), equal to 1000 ppb.

ppq: Parts per quadrillion or Picograms per liter (pg/L), equal to 1000 ppt.

Disinfectants	**MCL Violation Y or N**	**Running Annual Average (RAA)**	**Range of All Samples (Low-High)**	**MRDL**	**MRDLG**	**Sample Month & Year**	**Likely Source of Contamination**
Chlorine (ppm)	N	1.00	0.96 – 1.14	4	4	2024	Water additive used to control microbes
Disinfection By-Products	**MCL Violation Y or N**	**Running Annual Average (RAA)**	**Range of All Samples (Low-High)**	**MCL**	**MCLG**	**Sample Year**	**Likely Source of Contamination**
Haloacetic Acids (HAA5) (ppb)	N	2.2	ND – 3.2	60	N/A	2024	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	N	26.3	3.1 – 39.3	80	N/A	2024	Byproduct of drinking water disinfection
Lead & Copper	**MCL Violation Y or N**	**90th Percentile**	**Number of Samples Exceeds AL**	**AL**	**ALG**	**Sample Year**	**Likely Source of Contamination**
Copper (ppm)	N	0.135	0	1.3	1.3	2023	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	N	0.65	0	15	0	2023	Corrosion of household plumbing systems; erosion of natural deposits
Radionuclides	**MCL Violation Y or N**	**Highest Level Detected**	**Range of All Samples (Low-High)**	**MCL**	**MCLG**	**Sample Year**	**Likely Source of Contamination**
Alpha Emitters (pCi/L)	N	3.9	ND – 3.9	15	0	2024	Erosion of natural deposits
Combined Radium-226 & -228 (pCi/L)	N	2.5	ND – 2.5	5	0	2024	Erosion of natural deposits
Uranium (ug/L)	N	15	ND -- 15	30	0	2024	Erosion of natural deposits
Inorganic Chemicals (IOC)	**MCL Violation Y or N**	**Highest Level Detected**	**Range of All Samples (Low-High)**	**MCL**	**MCLG**	**Sample Year**	**Likely Source of Contamination**
Arsenic[1] (ppb)	N	6.64	ND – 6.64	10	0	2024	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes
Barium (ppm)	N	0.09	0.03 – 0.09	2	2	2024	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	N	0.59	0.13 – 0.59	4	4	2024	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate[2] (ppm)	N	7.2	ND – 7.2	10	10	2024	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	N	40.8	25.4 – 40.8	N/A	N/A	2024	Erosion of natural deposits

[1] **Arsenic** is a mineral known to cause cancer in humans at high concentration and is linked to other health effects, such as skin damage and circulatory problems. While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. 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 is linked to other health effects such as skin damage and circulatory problems.

[2] **Nitrate** in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause "blue baby syndrome." Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.

Synthetic Organic Chemicals (SOC)	MCL Violation Y or N	Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Year	Likely Source of Contamination
Atrazine (ppb)	N	0.11	ND – 0.1	3	3	2024	Runoff from herbicide used on row crops
Volatile Organic Chemicals (VOC)	**MCL Violation Y or N**	**Highest Level Detected**	**Range of All Samples (Low-High)**	**MCL**	**MCLG**	**Sample Year**	**Likely Source of Contamination**
Trichloroethylene (ppb)	N	1.16	ND – 1.16	5	0	2024	Discharge from metal degreasing sites and other factories

Water Quality Table – Unregulated Contaminants

One Metal	Detected (Y/N)	Average	Range of All Samples (Low-High)	MRL (ppb)	Analytical Methods
Lithium (ppb)	Y	15.9	ND – 63.7	9 ppb	EPA 200.7, SM 3120 B, ASTM D1976–20

Violation Summary

Violation Type	Explanation, Health Effects	Time Period	Corrective Actions
Missed Monitoring	Tucson Water was unable to re-collect the second set of Synthetic Organic Compounds (SOC) samples for six parameters due to an inoperable well undergoing rehabilitation: • Heptachlor Epoxide • Heptachlor • Lasso • Methoxychlor • BHC-Gamma • Endrin These six parameters are part of the SOC group that are man-made organic chemicals. Some people who drink water containing SOCs in excess of the MCL over many years could experience reproductive difficulties; have problems/damage to eyes, liver, kidneys, or spleen; experience anemia; and may have an increased risk of getting cancer.	Monitoring Period 01-01-2022 to 12-31-2024	Rehabilitation is complete and the well is back in service. The SOC missing parameters were collected and the laboratory results have been reported as non-detect. The results were reported to ADEQ on March 28th, 2025.

Please share this information with other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.