

Consumer Confidence Report for Calendar Year 2021

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

| Public Water System ID Number | Public Water System Name | | | | | |
|--------------------------------|----------------------------------|--------------|---------------------|--|--|--|
| AZ0407079 | Valley Utilities Water Co., Inc. | | | | | |
| Contact Name and Title | - | Phone Number | E-mail Address | | | |
| Jerry King, Operations Manager | | 623-935-1100 | jerryking@vuwco.com | | | |

If you have any questions about the information within this report, please don't hesitate to contact us anytime at 623-935-1100. We encourage you to visit our website at www.vuwco.com

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): 7 active wells pump groundwater from the Phoenix AMA West Salt River Valley Basin

Consecutive Connection Sources

A public water system that receives some or all of its finished water from on e 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 # AZ0407046, Liberty Utilities, provides us a consecutive connection source of water.

PWS # AZ0407073, Tierra Buena Water Company, provides us a consecutive connection source of water.

Drinking Water Contaminants

Microbial Contaminants: Such as viruses and bacteria that 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: Such as agriculture, urban storm water runoff, and residential uses that may come from a variety of sources

Organic Chemical Contaminants: Such as synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic systems.

Radioactive Contaminants: That can be naturally occurring or be the result of oil and gas production and mining activities.

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. 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. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and microbiological contaminants call the EPA *Safe Drinking Water Hotline* at 1-800-426-4791.

Source Water Assessment

Based on the information currently available on the hydrogeological settings of and the adjacent land uses that are in the specified proximity of the drinking water source(s) of this PWS, the department has given a low risk designation for the degree to which this PWS drinking water source(s) are protected. A low risk designation indicates that most source water protection measures are either already implemented, or the hydrogeology is such that the source water protection measure will have little impact on protection.

Further source water assessment documentation can be obtained by contacting ADEQ.

Definitions

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

Level 1 Assessment: A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria was present

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 was present

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

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water

Maximum Contaminant Level Goal MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health

Maximum Residual Disinfectant Level (MRDL): The highest level of disinfectant allowed in drinking water

Maximum Residual Disinfectant Level Goal (MRDLG): The level of disinfectant added for treatment at which no known or anticipated adverse effect on health of persons would occur

Minimum Reporting Limit (MRL): The smallest measured 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

Not Applicable (NA): Sampling was not completed by regulation or was not required

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

Nephelometric Turbidity Units (NTU): A measure of water clarity

Million fibers per liter (MFL)

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

ppm: Parts per million or Milligrams per liter (mg/L)

ppb: Parts per billion or Micrograms per liter (µg/L)

ppt: Parts per trillion or Nanograms per liter (ng/L)

ppq: Parts per quadrillion or

ppm x 1000 = ppb

Discourages per liter (pg/L)

ppb x 1000 = ppt

Picograms per liter (pg/L)

ppt x 1000 = ppq

Lead Informational Statement:

Lead, in drinking water, is primarily from materials and components associated with service lines and home plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Valley Utilities Water Co. 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. 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 or at www.epa.gov/safewater/lead.

Water Quality Data - Regulated Contaminants

| Microbiological (RTCR) | TT Violation Y or N | Number of Positive Samples | Positive Sample(s) Month & Year | MCL | MCLG | Likely S | ource of Contamination |
|---|----------------------------|----------------------------------|---------------------------------------|-----|------|------------------------------|-----------------------------------|
| E. Coli | N | 0 | - | 0 | 0 | Human and animal fecal waste | |
| Fecal Indicator (From GWR source) (coliphage, enterococci and/or E. coli) | N | 0 | - | 0 | 0 | Huma | an and animal fecal waste |
| Lead & Copper | MCL Violation Y or N | 90 th Percentile | Number of Samples Exceeds AL | AL | ALG | Sample Month & Year | Likely Source of Contamination |

| Lead (ppb) | N | 0 | 0 | 15 | 0 | Oct 2021 | Corrosion of household plumbing systems; erosion of natural deposits |
|---|----------------------------|---|---------------------------------------|-------------|--------------|---------------------------|---|
| Copper (ppm) | N | 0.091 | 0 | 1.3 | 1.3 | Oct 2021 | Corrosion of household plumbing systems; erosion of natural deposits |
| Disinfectants and Disinfection By-Products | MCL Violation Y or N | Running Annual Average (RAA) <u>OR</u> Highest Level Detected | Range of All Samples (Low-High) | MCL | MCLG | Sample Month & Year | Likely Source of Contamination |
| Chlorine (ppm) | N | 0.70 | 0.31 – 0.98 | MRDL = 4 | MRDLG = 4 | 2021 | Water additive used to control microbes. |
| Haloacetic Acids (HAA5) (ppb) | N | 2 | 0-3.6 | 60 | None | Aug 2021 | By-product of drinking water disinfection. |
| Total Trihalomethanes (TTHM) (ppb) | N | 27 | 13.8 – 40.7 | 80 | None | Aug 2021 | By-product of drinking water disinfection. |
| Inorganic Chemicals (IOC) | MCL Violation Y or N | Running Annual Average (RAA) <u>OR</u> Highest Level Detected | Range of All Samples (Low-High) | MCL | MCLG | Sample Month & Year | Likely Source of Contamination |
| Arsenic¹ (ppb) | N | 7.4 | 4.3 – 7.4 | 10 | 0 | 2021 | Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes |
| Barium (ppm) | N | 0.09 | 0.087 - 0.09 | 2 | 2 | March 2021 | Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits |
| Fluoride (ppm) | N | 0.61 | 0.6 – 0.61 | 4 | 4 | March 2021 | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |
| Chromium (ppb) | N | 10 | 9.5 – 10 | 100 | 100 | March 2021 | Discharge from steel and pulp mills; Erosion of natural deposits. |
| Nitrate ² (ppm) | N | 8.2 | 3.88 – 8.2 | 10 | 10 | 2021 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |
| Sodium (ppm) | N | 160 | 63 - 160 | 3000 | 3000 | 2021 | 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. If arsenic is less than or equal to the MCL, your drinking water meets EPA's standards. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water, and continues to research the health effects of low levels of arsenic.

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.

| Volatile Organic Contaminants (VOC) | MCL Annual Average Violation (RAA) OR Y or N Highest Level Detected | | Range of All Samples (Low-High) | MCL | MCLG | Sample Month & Year | Likely Source of Contamination |
|-------------------------------------|---|--------|---------------------------------------|-----|------|---------------------------|------------------------------------|
| Toluene (ppm) | N | 0.0013 | 0 – 0.0013 | 1 | 1 | 2021 | Discharge from petroleum factories |

Violation Summary (for MCL, MRDL, AL, TT, or Monitoring & Reporting Requirement)

| Violation Type | Explanation, Health Effects | Time Period | Corrective Actions | | |
|----------------|-----------------------------|-------------|--------------------|--|--|
| None | | | | | |

Table of Detected Contaminants

| Lead and Copper (Ta | p water at h | nomeow | ner's premises) | | | | |
|--------------------------|--------------|----------|--------------------------------------|---|------|-------------------------------------|---|
| | Violation | Year | Range and 90th | Unit of | MCLG | Regulatory Limit | Likely Source of Contamination |
| Contaminant | Yes/No | Tested | Percentile | Measurement | | (MCL, TT or AL) | ., |
| Copper | N | 2020 | Range - 0.1-1.3 90th %tile - 0.22 | mg/L | 1.3 | 90% of homes tested be less than | Corrosion of household plumbing systems, erosion of |
| Сорреі | IN | 2020 | Sites over AL - 0 | IIIg/L | 1.5 | 1.3 mg/L | natural deposits |
| | | | Range - ND-26 | | | 90% of homes | |
| Lead | N | 2020 | 90th %tile - ND | μg/L | 0 | tested be less than | Corrosion of household plumbing systems, erosion of |
| | | | Sites over AL - 2 | 1 0 | | 15 μg/L | natural deposits |
| | Violation | Year | Level Detected | Unit of | | Regulatory Limit | |
| Contaminant | Yes/No | Tested | (Avg/Max) (Range) | Measurement | MCLG | (MCL, TT or AL) | Likely Source of Contamination |
| Inorganic Contamina | nts | | | | | | |
| Arsenic | N | 2021 | 4.8 - 8.6 Range | μg/L | 0 | 10 | Erosion of natural deposits, runoff from orchards, runoff |
| 7.11.50.1110 | ., | 2022 | 8.6 Max | P6/ - | Ü | 10 | from glass and electronic production waste |
| Barium | N | 2019 | 0.03 - 0.11 Range | mg/L | 2 | 2 | Erosion of natural deposits, discharge of drilling waste, discharge of metal refineries |
| | | | 0.11 Max ND - 10 Range | | | | Erosion of natural deposits, Discharge of steel and pulp |
| Chromium | N | 2019 | 10 Max | μg/L | 100 | 100 | mills. |
| | | | ND - 3 Range 3 | | | | Erosion of natural deposits, discharge of petroleum and |
| Selenium | N | 2019 | Max | μg/L | 50 | 50 | metal refineries, discharge of mines |
| Allenata | | 2024 | 3.6 - 7.8 Range | /1 | 10 | 10 | Runoff from fertilizer use, leaching from septec |
| Nitrate | N | 2021 | 7.8 Max | mg/L | 10 | 10 | tanks/sewage, erosion of natural deposits |
| | | | 0.4 - 1.3 Range 1.3 | | | | Erosion from natural deposits, water additive which |
| Fluoride | N | 2019 | Max | mg/L | 4.0 | 4.0 | promotes strong teeth, discharge from fertilizer and |
| - 11 1 1 1 - 1 | | | | | | | aluminum factories. |
| Radiological Contam | inants | | | | | | |
| Constant Alaba and the | | 2010 | 1 - 4 Range | - C: /I | 0 | 4.5 | Erosion of natural deposits of certain minerals that are |
| Gross Alpha activity | N | 2019 | 4 Max | pCi/L | 0 | 15 | radioactive and may emit a form of radiation known as alpha radiation |
| Microbiological Cont | aminanto | | | | | | dipita radiation |
| Total Coliform (Present) | N | 2021 | Absent | Present/Absent | NA | TT | Naturally present in the environment |
| E. coli (Present) | N | 2021 | Absent | Present/Absent | 0 | - | Human and animal fecal waste |
| Disinfectant/Disinfect | tion By-pro | duct (D/ | | , | | | |
| , | , , | | ND - 2.5 Range 2.5 | | | | |
| HAA5 | N | 2021 | Max | μg/L | NA | 60 | Byproduct of drinking water disinfection |
| TTUNA | N | 2021 | 11.1 - 22.0 Range | /1 | NIA | 90 | Dunceduct of drinking water disinfection |
| TTHM | N | 2021 | 22 Max | μg/L | NA | 80 | Byproduct of drinking water disinfection |
| | | | 0.8 - 0.9 Range | | | | |
| Chlorine | N | 2021 | 0.9 Max | mg/L | 4 | 4 | Water additive used to control microbes |
| Unregulated Contam | iinants | | | | | | |
| Sodium | NA | 2021 | Range - 65-150 | mg/L | NA | NA | Erosion of natural deposits |
| | | | Average - 102 | - | | | · |
| | | | Range - 150-340 Average - 235 | | | | |
| Hardness | NA | 2021 | Grains/Gallon - 8.8- | mg/L | NA | NA | Erosion of natural deposits |
| - =::=== | | | 19.9 Average - | | | • • • • | |
| | | | 13.8 | | | | |
| | | | | | | | |

Violations in 2021

Nitrate Reporting - On March 2, 2022 we were informed by ADEQ that our water system missed a nitrate sample at one of our six required locations in the 1st Quarter of 2021. This location has a well that was being repaired in the 1st Quarter of 2021, and we had given notification that because of this repair, we may not be able to sample in the 1st Quarter. The sample was taken on April 23rd, the 1st full day the well was back in service. We were notified that because the well was in use during part of the 1st Quarter, there was an opportunity to sample, and therefore a violation was issued. The result of the nitrate sample taken on April 23rd was below the MCL, and was submitted to ADEQ by our lab on May 5, 2021.