The city of Phoenix is responsible for delivering the attached city of Glendale Water Quality Report because the water delivered to this specific area is treated and delivered by Glendale but billed by the City of Phoenix Water Services Department.

The specific service area for this water system is bounded by the Loop 101 on the south, Mohawk Drive on the north, 51st Avenue on the west, and 47th Avenue on the east.

Scroll down to view the report.
A Message from the Director of Water Services

I am pleased to present our annual Water Quality Report summarizing the drinking water testing performed in 2021. Although this report is about water quality, I am happy to share with you the work and dedication of our employees to make certain you have high quality, reliable, and affordable drinking water every day.

As we look back on 2021, the 20+ year drought continued and the federal government declared the first-ever Tier 1 shortage on the Colorado River effective January 1, 2022. Glendale has been planning and preparing for drought for decades and has a strong and diverse water resources portfolio. We are committed to providing a secure and sustainable water supply and continue to encourage you to conserve water where you can.

Water is a vital resource for our desert community, now and for the future. Over the last few years, the Water Services Department made significant investments in our water treatment and distribution systems. We continue to evaluate the condition of our infrastructure and plan for repairs and rehabilitation to ensure high quality and reliable water service to the residents and businesses we serve.

The quality of your drinking water is very important to us. The city tests, analyzes, and monitors water quality many times every day to ensure that the water provided is clean and safe to use.

If you have any questions about this report, your drinking water, or other questions regarding our water system, please contact our Water Services Department by telephone at 623-930-4100 or by using the Glendale One interface at www.GlendaleOne.com.

Craig Johnson, P.E.
Director, City of Glendale Water Services

Reliability, Quality & Value in Every Drop

Water is essential to all life and sustains our natural environment. It touches nearly every aspect of our daily lives, from making coffee in the morning to cleaning the dishes at night.

The Water Services Department takes its responsibility of providing quality and reliable water, wastewater, environmental and stormwater services very seriously. This 24/7 operation consists of four water treatment plants, two water reclamation plants, 1,700 miles of pipes, 9,000 fire hydrants, 64,000 water meters, and a myriad of other assets.

Reliability –
We maintain a highly-trained workforce, an extensive infrastructure and the appropriate investments to ensure the delivery of high-quality water today and every day into the future. Glendale regularly undertakes exhaustive infrastructure assessment, reinvestment, rehabilitation and replacement efforts, so that we can provide uninterrupted service 24/7.

Quality –
We test, analyze, and monitor water quality many times every day to ensure that your water exceeds the standards for high-quality drinking water.

Value –
We continually look for ways to optimize our processes and the life-cycle costs of assets. We maintain a financial management system that ensures affordable rates.

The average single-family residence in Glendale uses 9,000 gallons of water and generates 6,800 gallons of wastewater a month. The city is able to provide water and wastewater services to such residential customers for approximately $2.50 per day.

A GALLON OF GLENDALE TAP WATER
On average, a gallon of Glendale tap water costs less than 1¢. When compared with the costs of other products we use every day, tap water is clearly one of the best deals around!
Frequently Asked Questions

How do I know that my water meets all water quality standards?
The U.S. Environmental Protection Agency (EPA) places strict limits on the amount of contaminants and impurities allowed in drinking water to ensure that your water is safe to drink. The Food and Drug Administration regulations establish limits for contaminants in bottled water which must 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 the water poses a health risk.

The city of Glendale uses modern treatment processes to comply with the EPA water standards. The city also has an extensive sampling and water quality testing program to ensure water quality standards are met.

More information about contaminants and their potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 1-800-426-4791. Information on bottled water can be obtained from the Food and Drug Administration (FDA).

If I have health problems, how will drinking tap water affect me?
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.

EPA and Centers for Disease Control 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).

Is it true that drinking water containing high nitrate levels is a health concern?
Nitrate in drinking water at levels above 10 parts per million is a health risk for infants 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, you should ask for advice from your health care provider.

The nitrate level in Glendale’s drinking water meets safe drinking water requirements.

Is a home water treatment system necessary?
The use of a home water treatment system is a personal decision. Some people invest in home water treatment systems to enhance the taste of water and to further remove impurities. Home water treatment systems are not needed to make water safer. In fact, if not properly maintained, home water treatment systems may cause water quality problems that may affect your health.

All home water treatment devices, including refrigerated water dispensers and ice makers, need regular maintenance to operate effectively and safely. Follow the operating manual that comes with the home water treatment system to ensure that your system is properly maintained and operated in accordance with the manufacturer’s directions. Filter cartridges should be changed on a regular basis as recommended by the manufacturer.

City of Glendale Drinking Water Quality
The following tables show regulated substances that were required to be tested and were detected in Glendale drinking water in 2021. The tables contain the name of each substance detected, the highest level allowed by regulation, the ideal goals for public health, the amount detected and the usual sources of such contamination. Certain contaminants are required to be monitored less than one time per year because concentrations of those contaminants are not expected to vary significantly from year to year. For those contaminants that were not required to be tested in 2021, this report includes data from the most recent required testing.

The presence of contaminants does not indicate that the water poses a health threat, only that they were detected during routine compliance monitoring. Glendale monitored for more substances which were not detected.
This table shows the results of our water quality analysis in 2021. Each substance that was detected in the water, even in the smallest traceable amount, is listed. The table contains the name of each substance; the highest level and range detected and the major sources of each substance.

### Key to Analysis Tables

1. While your drinking water meets the Environmental Protection Agency’s (EPA) 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. The arsenic level for 2021 was well below the 10 PPM MCL.

2. While your drinking water meets EPA standards for nitrate-nitrogen, it does contain low levels of nitrate-nitrogen. The highest 2021 value for nitrate-nitrogen in the city of Glendale’s water supply was 3.4 PPM. The average value for the year was 1.2 PPM.

3. Total organic carbon (TOC) has no health effects. However, total organic carbon provides a measure for the formation of disinfection by-products. These by-products include trihalomethanes (THM) and haloacetic acids (HAA). Drinking water containing these by-products in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

4. Fluoride: Natural fluoride in water is commonly used as an additive that promotes tooth decay prevention.

5. Total haloacetic acids (THAA): The sum of concentrations of monochloroacetic, bromochloroacetic, dibromoacetic, and dibromochloroacetic acids, which are by-products of adding chlorine to water to kill harmful germs. The range of the results for Stage 2 THM DBP monitoring for 2021 was 7.5 to 12.7 PPM. Water samples are collected for total haloacetic acids quarterly at 12 locations within the city. Stage 2 THM DBP values are calculated as a locational running annual average.

6. The EPA requires us to monitor for lead and copper two years per decade, though we are currently monitoring for lead in 2022.

7. Copper: Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress.

8. Lead: Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children who are exposed to lead before or during pregnancy can have increased risk of adverse health effects, high blood pressure, kidney or nervous system problems.

### Substance Analysis

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>FEDERAL MCL</th>
<th>MCLG</th>
<th>MAXIMUM</th>
<th>RANGE</th>
<th>AVERAGE</th>
<th>UNITS</th>
<th>SOURCES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Arsenic</strong></td>
<td>10</td>
<td>0</td>
<td>7.2</td>
<td>ND to 7.2</td>
<td>4.2</td>
<td>PPB</td>
<td>Emission of natural deposits; runoff from orchards; runoff from grape and fruit sands production application of water.</td>
</tr>
<tr>
<td><strong>Barium</strong></td>
<td>2000</td>
<td>2000</td>
<td>130</td>
<td>ND to 130</td>
<td>45</td>
<td>PPB</td>
<td>Emission of natural deposits; discharge of dioxins waste; discharge of dioxins from metal refinement.</td>
</tr>
<tr>
<td><strong>Total Chromium</strong></td>
<td>100</td>
<td>100</td>
<td>38</td>
<td>ND to 38</td>
<td>12</td>
<td>PPB</td>
<td>Emission of natural deposits; discharge of steel &amp; pulp mills.</td>
</tr>
<tr>
<td><strong>Chlorine</strong></td>
<td>1</td>
<td>0.8</td>
<td>0.55</td>
<td>0.18 to 0.55</td>
<td>0.36</td>
<td>PPM</td>
<td>Bystander of drinking water disinfection.</td>
</tr>
<tr>
<td><strong>Chlorine Dioxide</strong></td>
<td>MRDL = 800</td>
<td>MRDL = 800</td>
<td>660</td>
<td>ND to 660</td>
<td>190</td>
<td>PPM</td>
<td>Water additive as an oxidant.</td>
</tr>
<tr>
<td><strong>Fluoride</strong></td>
<td>4</td>
<td>4</td>
<td>0.6</td>
<td>0.15 to 0.6</td>
<td>0.4</td>
<td>PPM</td>
<td>Emission of natural deposits; water additive that promotes strong teeth. Discharge from fertilizer &amp; agricultural factories.</td>
</tr>
<tr>
<td><strong>Nitrate</strong> as Nitrogen</td>
<td>10</td>
<td>10</td>
<td>5.8</td>
<td>ND to 5.8</td>
<td>3.2</td>
<td>PPM</td>
<td>Runoff from fertilizer use; leaching from septic tanks &amp; septic tanks; emission of natural deposits.</td>
</tr>
<tr>
<td><strong>Total Organic Carbon Removal Ratio</strong></td>
<td>TT = 0.7</td>
<td>TT = 0.7</td>
<td>3.83</td>
<td>1 to 3.83</td>
<td>2.1</td>
<td>NTU</td>
<td>Naturally present in the environment.</td>
</tr>
<tr>
<td><strong>Total Coliforms</strong></td>
<td>Presence</td>
<td>Presence</td>
<td>0</td>
<td>Highest monthly percentage 0%</td>
<td>0% to 0%</td>
<td>0%</td>
<td>P/A</td>
</tr>
<tr>
<td><strong>Chromium</strong></td>
<td>MRDL = 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PPM</td>
</tr>
<tr>
<td><strong>Gross Alpha (excluding Radon &amp; Uranium)</strong></td>
<td>15</td>
<td>15</td>
<td>0.4</td>
<td>ND to 0.4</td>
<td>0.2</td>
<td>pCi/L</td>
<td>Emission of natural deposits.</td>
</tr>
<tr>
<td><strong>Combined Radon (2020)</strong></td>
<td>5</td>
<td>5</td>
<td>0.7</td>
<td>ND to 0.7</td>
<td>0.2</td>
<td>pCi/L</td>
<td>Emission of natural deposits.</td>
</tr>
<tr>
<td><strong>Uranium (2020)</strong></td>
<td>50</td>
<td>50</td>
<td>4.9</td>
<td>ND to 4.9</td>
<td>1.7</td>
<td>pCi/L</td>
<td>Emission of natural deposits.</td>
</tr>
<tr>
<td><strong>Copper (2021)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PPM</td>
</tr>
<tr>
<td><strong>Disinfection Byproducts (2021)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PPB</td>
</tr>
<tr>
<td><strong>Total Haloacetic Acids</strong></td>
<td>60 (LRAR)</td>
<td>60 (LRAR)</td>
<td>12.7</td>
<td>7.5 to 12.7</td>
<td>10.2 (LRAR)</td>
<td>PPM</td>
<td>Bystander of drinking water disinfection.</td>
</tr>
<tr>
<td><strong>Total Trihalomethanes</strong></td>
<td>80 (LRAR)</td>
<td>80 (LRAR)</td>
<td>51.8</td>
<td>32.5 to 51.8</td>
<td>41.8 (LRAR)</td>
<td>PPM</td>
<td>Bystander of drinking water disinfection.</td>
</tr>
</tbody>
</table>

### Key to Analysis Tables

- **LRAR (Locational Running Annual Average)** - Maximum running annual average at the compliance locations.
- **MCL (Maximum Contaminant Level)** - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology.
- **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 allow for a margin of safety.
- **MRDL (Maximum Residual Disinfectant Level)** - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.
- **MRDLG (Maximum Residual Disinfection Level Goal)** - The level of disinfectant added to drinking water at 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.

### Minimum Reporting Limit (MRL)

The smallest measured concentration of a substance that can be reliably measured by a given analytical method. Range - The highest and lowest measurements reported during the year.

### Treatment (Technique)

A required process intended to reduce the level of a contaminant in drinking water.

### Maximum Residual Disinfectant Level (MRDLG)

The level of a disinfectant added to drinking water at 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.

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### Minimum Reporting Limit (MRL)

The smallest measured concentration of a substance that can be reliably measured by a given analytical method.

### Range

The highest and lowest measurements reported during the year.
SUBSTANCES OF FREQUENT INTEREST

**ANALYTE** | **UNITS** | **RANGE** | **AVG.** | **SOURCE**
--- | --- | --- | --- | ---
Alkalinity | PPM | 67 – 243 | 144 | Naturally-occurring element; commercially available in combination with other elements and minerals, a byproduct of zinc ore processing, used in infrared optics, fiber-optic systems, electronics and solar applications.
Aluminum | PPB | ND – 194 | 70 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
Bromide | PPM | ND – 210 | 10 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
Calcium | PPM | 14 – 82 | 57 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
Chloride | PPM | 38 – 314 | 137 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
Iron | PPB | ND – 92.5 | 1 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
Magnesium | PPM | 1 – 33 | 23 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
Manganese | PPB | ND – 84.8 | 1 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
Potassium | PPM | ND – 6 | 1 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
PFOS* | PPT | ND – 6.3 | 1 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
PFOS** | PPT | ND – 12 | 1 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
Sodium | PPM | 52 – 215 | 121 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
Sulfate | PPM | ND – 258 | 140 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
Sulfate | Grains/Gal. | 12 – 16 | 14 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
Sulfate | PPM | 203 – 280 | 247 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
pH | Std. Units | 7.01 – 8.16 | 7.80 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
TDS | PPM | 352 – 862 | 507 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.
Temperature | °C | 12.2 – 35.4 | 26.0 | Naturally-occurring element; commercially available in combination with other elements and minerals, used in steel production, fertilizers, batteries and fireworks, drinking water and wastewater treatment chemical; essential nutrient.

* Perfluorooctanesulfonic acid
** Perfluorooctanoic acid

Fourth Unregulated Contaminant Monitoring Rule (UCMR4)

Under the 1996 amendments to the federal Safe Drinking Water Act, the U.S. Environmental Protection Agency is required once every five years to issue a new list of up to 30 unregulated contaminants for which public water systems must monitor. The intent of this rule is to provide baseline occurrence data that the EPA can combine with toxicological research to make decisions about potential future drinking water regulations. We are currently going through the fourth round of this constituent testing.

The UCMR4 requires that each Public Water System conduct monitoring of their potable water systems during 2018-2021. The city of Glendale was required to begin monitoring for the UCMR4 during the 4th quarter of 2018 and continued monitoring into 2021. Four (4) consecutive quarters of monitoring are required to meet the federal requirement.

This includes monitoring for a total of 30 chemical contaminants: 10 cyanotoxins (nine cyanotoxins and one cyanotoxin group) and 20 additional contaminants (two metals, eight pesticides plus one pesticide manufacturing byproduct, three brominated haloacetic acid (HAA) disinfection byproducts groups, three alcohols, and three semi-volatile organic chemicals (SVOCs)).

With the exception of one well that was out-of-service, the city of Glendale completed the UCMR4 sampling prior to 2021. In 2021, one well was sampled for UCMR4 and those results are reported here.

Lead and Copper Monitoring

The city of Glendale is currently on standard monitoring for the federal Lead and Copper Rule, and we need our customers’ help. If you live in a house built between 1982 and 1988 and are interested in participating in this year’s sampling event, please contact us at waterqualitylab@glendaleaz.com.

Save Money Galore & Conserve Outdoors

- Choose plants that are desert-friendly or native to Arizona.
- Group plants with similar water needs together.
- Water your landscape before sunrise to minimize evaporation.
- Regularly run your irrigation system and look for misaligned sprinkler heads, missing drip emitters, and broken valves and pipes.

For more information, visit www.glendaleaz.com/waterconservation or call 623-930-3596.

The Water Services Department is committed to ensuring a reliable water supply for Glendale’s future. The city’s Conservation and Sustainable Living Division assists businesses and residents with improving their indoor and outdoor water efficiency through free programs and services:

- Commercial and Residential Water Audits
- Landscape Consultations, Water Budgets, and Rebates
- Water Waste Investigations
- Xeriscape Demonstration Garden
- Adult and Youth Education

New! Watch videos on-demand to learn simple ways to create a more water and energy efficient home and yard at http://bit.ly/GlendaleGreenVids.

For more information, visit www.glendaleaz.com/waterconservation.
Grass Removal Landscape Rebate

Glendale water customers can receive a rebate for converting their thirsty grass into desert-friendly landscapes. Save time, water, energy and money by making the switch to a water-wise landscape.

Follow four easy steps to get started:

1. Request free “how-to” information.
   Receive free publications on how to successfully convert grass to a water-smart landscape by calling 623-930-3760 or visiting www.glendaleaz.com/waterconservation.

2. Sign-up for a free consultation.
   Glendale Water Services Department staff provide free, on-site landscape consultations to Glendale water customers. We offer advice to help you install and maintain a sustainable landscape.

3. Learn about the landscape requirements.
   Single-family customers must remove at least 500 square feet of grass. Businesses, HOAs and multi-family customers must remove at least 1,000 square feet of grass and participate in the Landscape Water Budget Program. The converted area must be landscaped with Arizona-friendly plants (bare soil and artificial grass do not qualify).

4. Call 623-930-3760 to schedule a landscape inspection.
   After the inspection, landscapes that meet the criteria will receive a rebate depending on the amount of grass removed.

Water Source Information

Where does Glendale’s water come from?

The city uses renewable water supplies from the Salt, Verde and Colorado rivers, and stored water credits that are earned through the city’s recharge program. In addition, Glendale can pump a limited amount of groundwater when needed.

Runoff from the Salt/Verde River watershed is stored in a series of lakes operated by the Salt River Project (SRP). Runoff from the Colorado River watershed is stored in Lake Powell, Lake Mead, and Lake Pleasant and delivered through the Central Arizona Project (CAP) canal.

Salt River Project (SRP) – Snow and rain runoff from the Salt and Verde River watersheds.

Central Arizona Project (CAP) – Snow and rain runoff from the Colorado River watershed.

Groundwater – Underground water pumped from wells.

Reclaimed Water – Treated, recycled wastewater for non-potable use (landscape, industrial uses, etc.).

Potential Source Water Impurities

The city of Glendale’s raw water sources include rivers, lakes, reservoirs, and wells. As water travels from these sources, it dissolves naturally occurring minerals and, in some cases, radioactive material. Water can also pick up substances resulting from the presence of animals or people. Substances that may be present 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 a result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Organic chemical contaminants, including synthetic and volatile organics which are byproducts of industrial processes and petroleum production. These can also come from gas stations, urban stormwater runoff and septic systems.
- Pesticides and herbicides, which may come from agriculture, urban stormwater runoff and residential uses that may come from a variety of sources.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

The city treats and processes the water to improve quality and has an extensive water testing program to ensure water quality standards are met.
Water Hardness

Hardness is a measure of the minerals calcium and magnesium that are present in water. As water moves through or over the earth, it picks up these naturally occurring minerals that make the water “hard.” Usage of the word “hard” in this case refers to the difficulty with which suds form when using soap. The harder the water, more soap is required to produce suds. The amount of hardness in the city of Glendale’s drinking water in 2021 ranged between 203 to 280 PPM or 12 to 16 grains per gallon. Hard water is not a primary water quality standard and is not considered to be a health concern. According to the National Research Council (National Academy of Sciences), hard water generally contributes a small amount toward the total human dietary need for calcium and magnesium.

Source Water Assessment

In 2003, the Arizona Department of Environmental Quality (ADEQ) conducted source water assessments of surface water and groundwater sources for the city of Glendale public water system. The assessments included an evaluation of land uses, such as gas stations, landfills, dry cleaners, agricultural fields, wastewater treatment plants, and mining activities that may pose a potential water quality risk to the city’s water sources. ADEQ has given the city of Glendale public water system a high-risk designation for the degree to which its drinking water sources are protected.

ADEQ categorized all surface water sources as high risk because they are open to the atmosphere. The overall risk posed to surface water is addressed by EPA through its increased monitoring requirement for surface water sources. A designation of high-risk indicates there may be additional source water protection measures which can be implemented on a local level. This does not imply that the source water is contaminated, nor does it mean that contamination is imminent.

To ensure high quality water, the city regularly monitors and treats the water received from all sources prior to delivery. Glendale also conducts other monitoring and studies to assess water quality. If any contaminant approaches the drinking water Maximum Contaminant Level (MCL), treatment is installed or wells are removed from service. The city of Glendale’s top priority is to provide safe drinking water 24 hours a day, every day.

Information regarding source water assessments is available for inspection at ADEQ, 1110 W. Washington St., Phoenix, Arizona 85007, from 8 a.m. to 5 p.m. Email inquiries regarding source water assessments may be sent to ADEQ at db2@azdeq.gov

For more information, visit the ADEQ website at: https://azdeq.gov/SourceWaterProtection or contact the city of Glendale’s Water Services Department at 623-930-4100.

Protecting the Environment

Only Rain in the Storm Drain

Originating from rain, snow or ice melt, stormwater is conveyed through washes and streams and is naturally stored in ponds, lakes or reservoirs. Natural environments with no ground disturbance are permeable surfaces allowing stormwater to seep into the soil providing water for plants, trees, wildlife, and humans.

Our roadways, sidewalks, paved areas and rooftops are impermeable surfaces that are managed to convey water in pipes, channels or canals before they discharge into waterways. This runoff can “pick up” trash, oils and chemicals that can be harmful to the environment. Maintenance and inspection of drainage features keeps sediment out of washes and streams. Identifying and stopping illicit discharges like oil or paint disposal into streets or alleys ensures chemical pollutants do not enter the drainage system.

For more information on keeping Glendale clean and green visit www.glendaleaz.com/environmentalprotection or to learn more about the importance of stormwater, visit www.azstorm.org.

Cease the Grease

Fats, oils, and/or grease (FOG) have the potential to collect in drains and sewer pipes and can cause expensive and undesirable clogs. To prevent grease build-up in the sewer pipes, the city maintains an inspection program of commercial businesses including eating establishments, auto repair shops, commercial laundry, and car washes.

What you can do – Do not put grease down your garbage disposal or sink. For tips on how to properly dispose of FOG in the sanitary sewer, visit www.glendaleaz.com/environmentalprotection.

Pain in the Drain

Discarding of unwanted medications down the toilet or sink is not acceptable because many medications cannot be broken down at a water reclamation facility.

Option 1 – Keep medication in its container and place it into a MedReturn Drug Collection Unit* at the following Glendale police stations:

Foothills Station - 6255 W. Union Hills Dr. / Gateway Station - 6261 N. 83rd Ave.

*Does not accept liquid medications or syringes. Information on disposal of syringes can be found here: https://azdeq.gov/Sharps

Option 2 – Put medication into a sealable bag or container and mix with an undesirable substance (such as kitty litter or used coffee grounds). Dispose of it in the trash. Keep away from children and pets.

Option 3 – Contact your pharmacy to see if they collect unused medications.

For more information, visit www.glendaleazwater.com.
Long Term Water Supply

Does Glendale have enough water resources for a growing community?

Glendale has a 100-year water supply for all existing and planned developments within the city’s water service area and is capable of building the necessary distribution and treatment facilities to deliver high quality water to a growing community.

Glendale’s Drinking Water Distribution System is comprised of a vast network of more than 25,000 valves, 67,000 service lines, 9,000 fire hydrants, traveling through more than 1,100 miles of pipe, ranging in sizes from 4 inches to 60 inches. Water from Glendale’s water treatment plants, wells, and reservoirs serve the population with high quality drinking water for all its potable water uses. These assets, along with planned new wells over the next five years, will strengthen Glendale’s ability to deliver water across all of its pressure zones. The city of Glendale is committed to the maintenance and rehabilitation of its aging drinking water infrastructure through system enhancements and improvements to ensure consistent and reliable delivery of water to its constituents.

Glendale is Prepared for Drought

The Southwestern United States, including Arizona, has been in a drought for more than 22 years. This has greatly impacted the Colorado River system including Lake Mead and Lake Powell. The Colorado River represents approximately 36% of Arizona’s collective water supply. Considering Arizona’s priority system, the city of Glendale’s Colorado River supply will not be reduced in the immediate future. In other words, a water shortage on the Colorado River does not mean a water shortage at your tap.

Glendale has known for many years our Colorado River supplies could be cut and we have been preparing for this shortage for decades and will continue to do so. These preparations include:

- Securing in a diverse and robust water portfolio that includes renewable surface water, groundwater, and reclaimed water supplies
- Using reclaimed water to conserve potable water supplies
- Decreased reliance on groundwater
- Storing water underground for future use
- Investing in infrastructure, including wells to pump groundwater when surface water supplies may be reduced
- Supporting water conservation through ordinances and codes; developing conservation-based water rates; and offering an effective Water Conservation Program for people of all ages

While Glendale has a safe, secure, and reliable water supply now, we all need to continue to do our part to use water wisely. We know that water is precious in the desert and that every drop counts. Water conservation makes sense in the desert Southwest!

For more information, visit www.glendaleaz.com/drought.
Want to Know More?

Water-related topics may be discussed at the Citizens Utility Advisory Commission (CUAC) and City Council meetings. Please visit the following webpages for more information.

Glendale City Council Agendas and Meetings:
www.glendaleaz.com/your_government/city_council

Citizens Utility Advisory Commission (CUAC) Meetings:
www.glendaleaz.com/your_government/connect/departments/city_clerk/boards_and_commissions/citizens_utility_advisory_commission

Contact Glendale Water Services Staff:
Water Services Department: 623-930-4100 | www.glendaleazwater.com or www.glendaleone.com
Water Quality Laboratory: 623-930-3897 | waterqualitylab@glendaleaz.com

Visit the following resources to learn more:
Tap Into Quality: www.tapintoquality.com
Only Tap Water Delivers: www.drinktap.org
Water - Use It Wisely: www.wateruseitwisely.com
Water Sense: www.epa.gov/watersense

Tap Into Quality
Tap water. You turn on the faucet, it’s always there. It may be taken for granted, but tap water quality, convenience and value is not taken lightly by the people who ensure it is safe and available when you want it. The safety, convenience and affordability of tap water is the message being communicated by “Tap Into Quality,” a public education campaign designed to keep citizens informed about the quality of their tap water. To learn more about your tap water, and check out an informative video, visit www.tapintoquality.com.