

# Morenci Water & Electric

Morenci PWS ID# AZ04-06-003

## 2025 CONSUMER CONFIDENCE REPORT

Este informe contiene información muy importante sobre el agua 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>

Morenci Water & Electric (MWE) is committed to providing a safe supply of drinking water to our customers. We issue this report by July 1<sup>st</sup> of every year describing the quality of your drinking water to comply with state and U.S. Environmental Protection Agency (EPA) regulations. Much of the language used is mandated by regulations. This report provides valuable information about your drinking water, including information about its source and quality.

If you would like more information on the quality of your drinking water or have questions regarding this report, or require additional copies, please contact MWE at 928-865-2229. MWE recommends that customers serving more than one housing unit post a copy of this report in a conspicuous place. We are pleased to report that Morenci's water meets or exceeds all drinking water standards set by the state and federal governments for 2025.

This is our annual report about your drinking water quality, also called a Consumer Confidence Report or CCR. Having clean, safe water is one of the most important services we provide, and we want you to be as informed as possible about your drinking water.

This report provides you with information about where your water comes from, results of sampling that we have performed, and any issues or violations that happened over the previous year. This water quality report includes a table with the most recent water testing results within the last 5 years. The table shows if different germs and chemicals were in a safe range and met EPA's health standards. Look for the column in the table called "TT or MCL violation," to see if your utility found unsafe levels of any germs or chemicals.

You may also find real-time information about our water system at the Arizona Department of Environmental Quality (ADEQ) *Drinking Water Watch* website at [https://azsdwis.azdeq.gov/DWW\\_EXT/](https://azsdwis.azdeq.gov/DWW_EXT/)

### **Drinking Water Sources**

Morenci's water source is surface water and is obtained from Eagle Creek located eight miles west of Morenci. 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 and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

## Source Water Assessment

The Source Water Assessment (SWA) Program, developed and implemented by the Arizona Department of Environmental Quality (ADEQ) under EPA guidance, was created to promote community awareness of water quality issues and to encourage the protection of drinking water sources at the community level. ADEQ gathers information on drinking water sources including wells, surface water intakes, and springs and evaluates the extent to which the water source is vulnerable to natural or man-made contamination from sources such as gas stations, landfills, dry cleaners, agriculture fields, wastewater treatment plants, and mining activities.

ADEQ has evaluated the source water areas in Greenlee County including the source waters for the Morenci drinking water system. The SWA for the Morenci drinking water system has been designated as a low risk for the degree to which this public water system 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 measures will have little impact on protection.

The complete SWA report is available for inspection at the ADEQ, 1110 W. Washington, Phoenix, Arizona 85007, between the hours of 8:00 am and 5:00 pm. Further source water assessment documentation can be obtained by visiting ADEQ's Source Water Assessment Protection Unit website at: <https://azdeq.gov/source-water-protection>.

## 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:** which 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. 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](http://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.

Morenci Water & Electric 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 information may be viewed online at: [www.morencitown.com](http://www.morencitown.com) 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 Morenci Water & Electric. 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.

| Surface Water Treatment Rule  | TT Violation Y or N  | Highest Level Detected                                 | % Range (Low-High)              | TT   | Sample Month & Year | Likely Source of Contamination       |  |
|---|----------------------|--|---------------------------------|------|---------------------|--------------------------------------|--|
| Total Organic Carbon <sup>1</sup> (mg/L)  | N                    | 1.8  | 0.64 – 1.8                      | TT   | 2025                | Naturally Present in the Environment |  |
| Turbidity <sup>2</sup> (NTU)  | N                    | 0.464  | 0.147 – 0.464                   | TT   | 2025                | Soil runoff                          |  |
| <p><sup>1</sup> Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THM) and haloacetic acids (HAA). Drinking water containing these byproducts 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.</p> <p><sup>2</sup> Turbidity is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. We monitor it because it is a good indicator of the quality of water. High turbidity can hinder the effectiveness of disinfectants. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.</p> |                      |  |                                 |      |                     |                                      |  |
| 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/Chloramine (ppm)   | N                    | 0.46   | 0.84 – 1.47                     | 4    | 4                   |                                      | Water additive used to control microbes  |
| Disinfection By-Products  | MCL Violation Y or N | Running Annual Average (RAA) OR Highest Level Detected | Range of All Samples (Low-High) | MCL  | MCLG                | Sample Month & Year                  | Likely Source of Contamination   |
| Haloacetic Acids (HAA5) (ppb)   | N                    | 20.74  | 8.7 - 58                        | 60   | N/A                 | 2025                                 | Byproduct of drinking water disinfection   |
| Total Trihalomethanes (TTHM) (ppb)  | N                    | 39.63  | 15 – 91                         | 80   | N/A                 | 2025                                 | Byproduct of drinking water disinfection   |
| <p><sup>1</sup> Total Trihalomethanes (TTHMs) Trihalomethanes are a group of chemicals that can form when organic matter in water is treated with disinfectants such as chlorine. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.</p>  |                      |  |                                 |      |                     |                                      |  |
| Lead & Copper   | MCL Violation Y or N | 90 <sup>th</sup> Percentile                            | Number of Samples Exceeding AL  | AL   | ALG                 | Sample Month & Year                  | Likely Source of Contamination   |
| Copper (ppm)  | N                    | 0.1  | 0                               | 1.3  | 1.3                 | 2024                                 | Corrosion of household plumbing systems; erosion of natural deposits                                   |
| Lead (ppb)  | N                    | 0.68   | 0                               | 15   | 0                   | 2024                                 | Corrosion of household plumbing systems; erosion of natural deposits                                   |
| Inorganic Chemicals (IOC)   | MCL Violation Y or N | Running Annual Average (RAA) OR Highest Level Detected | Range of All Samples (Low-High) | MCL  | MCLG                | Sample Month & Year                  | Likely Source of Contamination   |
| Arsenic <sup>1</sup> (ppb)  | N                    | 1.6  | 0                               | 10   | 0                   | 01/2021                              | Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes |

|                       |    |       |   |   |   |         |   |
|-----------------------|----|-------|---|---|---|---------|---|
| <b>Barium (ppm)</b>   | N  | 0.015 | 0 | 2 | 2 | 01/2021 | Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits                                |
| <b>Fluoride (ppm)</b> | NO | 0.58  | 0 | 4 | 4 | 01/2021 | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |

### Water Quality Table – Unregulated Contaminants

Your drinking water was sampled between **02/05/2025 – 11/04/2025** for the presence and concentration of 29 different per- and polyfluoroalkyl substances, some known by the acronyms PFAS, PFOA, PFNA, PFHxS, PFBS, and GenX, a group of contaminants in the final stages of becoming regulated by the EPA. PFAS are man-made chemicals that are resistant to heat, water, and oil. They have been used since the 1940s to manufacture various consumer products, including fire-fighting foam and stain resistant, water-resistant, and nonstick items. Many PFAS do not break down easily and can build up in people, animals, and the environment over time. Scientific studies have shown that exposure to certain PFAS can be harmful to people and animals, depending on the level and duration of exposure.

To learn more about this group of chemicals, we encourage you to visit the ADEQ website at <https://www.azdeq.gov/pfas-resources>. You may also read the ADEQ-provided “PFAS 101 Fact Sheet” or view ADEQ’s Introduction to PFAS video on YouTube at <https://www.youtube.com/watch?v=t44kSh0uKXE>

| Per- and Polyfluoroalkyl Substances  | Highest Level Detected | Range of All Samples | Proposed MCL |
|--------------------------------------|------------------------|----------------------|--------------|
| <b>PFOA (in parts per trillion)</b>  | ND                     |                      | 4.0 ppt      |
| <b>PFOS (in parts per trillion)</b>  | ND                     |                      | 4.0 ppt      |
| <b>PFNA (in parts per trillion)</b>  | ND                     |                      | 10 ppt       |
| <b>PFHxS (in parts per trillion)</b> | ND                     |                      | 10 ppt       |
| <b>PFBS (in parts per trillion)</b>  | 0.025                  | 0.0066 - 0.025       | N/A*         |
| <b>GenX (in parts per trillion)</b>  | ND                     |                      | 10 ppt       |
| <b>Calculated Hazard Index (HI)</b>  | 0.0125                 |                      | 1 (no units) |

\* **Hazard Index or HI:** The Hazard Index is an approach that determines the health concerns associated with mixtures of certain PFAS in finished drinking water. Low levels of multiple PFAS that individually would not likely result in adverse health effects may pose health concerns when combined in a mixture. The Hazard Index MCL represents the maximum level for mixtures of PFHxS, PFNA, HFPO-DA, and/or PFBS allowed in water delivered by a public water system. A Hazard Index greater than 1 requires a system to take action.

### Water Quality Table - Unregulated Contaminant Monitoring Rule (Required Reporting)

| Twenty-nine Per- and Polyfluoroalkyl Substances (In parts per trillion) | Detected (Y/N) | Average of Results (ppt) | Range of All Samples (Low-High) | Minimum Reporting Level (ppt) | Analytical Methods                  |
|---|----------------|--------------------------|---------------------------------|-------------------------------|-------------------------------------|
| <b>One Metal</b>  | Detected (Y/N) | Average                  | Range of All Samples (Low-High) | MRL (ppb)                     | <b>Analytical Methods</b>           |
| Lithium (ppb)   | Y              | 16.25 ug/L               | 0 -23 ug/L                      | 9 µg/L                        | EPA 200.7, SM 3120 B, ASTM D1976–20 |

**Violation Summary**

| <b>Violation Type</b>                    | <b>Explanation, Health Effects</b>   | <b>Time Period</b>      | <b>Corrective Actions</b>  |
|--|--|-------------------------|--|
| Total Organic Carbon & Alkalinity        | Missed Monitoring - laboratory received the sample on time; however, due to an unforeseen issue they were unable to complete the analysis. | 08/01/2025 – 08/31/2025 | All sample results before and after August met drinking water standards. |
| Total Organic Carbon & Alkalinity (TOCA) | TOCA report to ADEQ was received late  | 12/01/2025-12/31/2025   | ADEQ received report   |

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.

For more information about these reports and what is required in them, visit EPA's website at:  
<https://www.epa.gov/ccr/ccr-information-consumers>