



# Navajo Tribal Utility Authority®

An Enterprise of the Navajo Nation

## 2021 Annual Water Quality Report

Calendar Year 2021 Public Water System NN3510002

Boardman Loop

### NTUA'S Mission...

To provide safe and reliable affordable utility services that exceed our customers' expectation

### General Information...

It is important for you, our valued customer, to understand the potential occurrence and presence of contaminants within your potable water. As water flows on or beneath the surface of the earth, it dissolves naturally occurring minerals and pollutants produced from animal and/or human activity. These disturbed minerals and pollutants are called contaminants and could potentially be found in your potable water. Although, these contaminants may not necessarily pose a health risk to you, they may be of a particular risk to individuals with compromised immune systems. These individuals include persons diagnosed with cancer and undergoing chemotherapy, persons who have undergone organ transplants, persons with HIV/AIDS or other immune-deficiency disorders, and elderly and infants who may be prone to infection by these contaminants. These individuals should seek advice from their health care provider about consuming community potable water.

### Where does my water come from?

Your water comes from one ground water source. One ground water source is purchased from Public Water System #NM3508317.

### How can I get involved?

Feel free to contact the number provided below for more information or for a translated copy of the report if you need it in another language.

\*Please share this information with all the 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

Contact: Raquel Whitehorse,  
Supervisor,  
Navajo Tribal Utility Authority,  
PO Box 170, Fort Defiance, AZ  
86504-0170  
Phone: (928) 729-6239 or  
Fax: (928) 729-6249.

### Saving Water at Home

- Turn off the faucet while brushing your teeth.
- Take shorter showers.
- Fix leaks in faucets, showerheads and toilets.
- Washing full loads of dishes and laundry
- Buying water saving devices like high-efficiency appliances

### This report is a snapshot of your water quality

This report is a snapshot of your water quality. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We are committed to providing you with information because informed customers are our best allies.

### Consumer Confidence Report 2021

The Navajo Tribal Utility Authority (NTUA) operates and maintains the public water system within your community. NTUA has created the Consumer Confidence Report to reassure our dedication and commitment in providing safe and quality potable water to you, our valued customer. Please take a few minutes to view this report and become familiar with your potable water.

The Consumer Confidence Report will provide valuable information about your potable water, such as, the type of water source, recent water quality detections, potential health effects, and governing drinking water standards and regulations. With water being an intricate part of our lifestyle, NTUA will continue to ensure the protection and quality of potable water served to your community.

### Your Water Source...

NTUA provides potable water from several different sources. The majority of communities receive their potable water from ground water. Ground water is pumped from wells, ranging from several feet to hundreds of feet in depth, and treated to become potable water. Some communities receive their potable water from streams and springs. Stream and spring water is treated, as if it were ground water, to become potable water. However, some communities receive their potable water from surface water, such as, the Animas River, the San Juan River, Farmington Lake, and Lake Powell. Surface water is pre-treated, filtered, and post-treated to become potable water.

### Safe Drinking Water Act...

In 1996, the Safe Drinking Water Act (SDWA) was amended to ensure public water systems provide safe drinking water to the public and meet drinking water quality standards. The United States Environmental Protection Agency (USEPA) is governed to oversee states, localities, and water suppliers who implement these drinking water standards. Pursuant to SDWA, USEPA established maximum contaminant levels, maximum contaminant level goals, action levels, and treatment techniques to protect public health from drinking water contamination. NTUA is also regulated by the Navajo Nation Environmental Protection Agency (NNEPA) and must also comply with Navajo Nation Primary Drinking Water Regulations (NNPDWR).

*NOTE: Drinking water, including bottled water, may reasonably be expected to contain minimal concentrations of some contaminants. The presence of contaminants does not necessarily indicate the drinking water poses a health risk. Information about contaminants and potential health effects can be obtained from the USEPA Safe Drinking Water Hotline (1-800-426-4791) or online at <http://www.epa.gov/safewater>.*

### Do I need to take special precautions?

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. The Environmental Protection Agency (EPA) and Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

### Why are there contaminants in my drinking water?

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. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity including: *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, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil & 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; and *radioactive contaminants*, which can be naturally-occurring or be the result of oil & gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that 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.



## Water Quality Table - NN3510002 - Boardman Loop

The table below lists all of the drinking water contaminants detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires monitoring for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

| Contaminants                    | MRDLG | MRDL         | Your Water | Range Low    | Range High   | Sample Date | MRDL Exceeded | Typical Source   |
|---------------------------------|-------|--------------|------------|--------------|--------------|-------------|---------------|--|
| <b>DISINFECTIONS</b>            |       |              |            |              |              |             |               |  |
| Chlorine                        | 4     | 4            | 0.5992     | 0.26         | 0.98         | 2021        | No            | Drinking water additive used for disinfection  |
| Units: Chlorine residual, ppm   |       |              |            |              |              |             |               |  |
| Contaminants                    | MCLG  | MCL          | Your Water | Range Low    | Range High   | Sample Date | Violation     | Typical Source   |
| <b>DISINFECTION BY-PRODUCTS</b> |       |              |            |              |              |             |               |  |
| Total Trihalo-methanes (TTHMs)  | N/A   | 80           | 19.5       | 18.7         | 20.3         | 2021        | No            | By-product of drinking water chlorination  |
| Units: ppb                      |       |              |            |              |              |             |               |  |
| Contaminants                    | MCLG  | Action Level | Your Water | Range        |              | Sample Date | A.L. Exceeded | Typical Source   |
| <b>LEAD AND COPPER RULE</b>     |       |              |            |              |              |             |               |  |
| Copper                          | 1.3   | 1.3          | 0.033      | 0 sites over | Action Level | 2019        | No            | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Units: ppm - 90th Percentile    |       |              |            |              |              |             |               |  |

NTUA purchases potable water that is treated by the City of Gallup. Below is additional information provided in the City of Gallup’s 2021 Consumer Confidence Report. The City of Gallup receives its source water from 16 wells tapping under-ground supplies from two main underground aquifers: the Gallup Sandstone and the Dakota-Westwater.

## CITY OF GALLUP 2021 CCR - Regulated Substances

| SUBSTANCE (UNIT OF MEASURE)  | Year Sampled | MCL [MRDL] | MCLG [MRDLG] | Amount Detected                               | Range Low-High             | Violation | Typical Source  |
|--|--------------|------------|--------------|---|----------------------------|-----------|---|
| Alpha Emitters (pCi/L)   | 2017         | 15         | 0            | 3.3   | ND - 3.3                   | No        | Erosion of natural deposits   |
| Arsenic (ppb)  | 2017/2018    | 10         | 0            | 1   | ND - 1.0                   | No        | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production waste                     |
| Beta/Photon Emitters* (pCi/L)  | 2017         | 50         | 0            | 5.3   | 5.2 - 5.3                  | No        | Decay of natural and man-made deposits  |
| Chlorine (ppm)   | 2021         | [4]        | [4]          | 1.8   | 0.6 - 1.8                  | No        | Water additive used to control microbes   |
| Combined Radium (pCi/L)  | 2017         | 5          | 0            | 1.63  | 1.38 - 1.63                | No        | Erosion of natural deposits   |
| Fluoride (ppm)   | 2017/2018    | 4          | 4            | 0.88  | 0.63 - 0.88                | No        | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Haloacetic Acids [HAA] (ppb)   | 2021         | 60         | N/A          | 2.6   | 2.0 - 2.6                  | No        | By-product of drinking water disinfection   |
| TTHMs [Total Trihalomethanes] (ppb)  | 2021         | 80         | N/A          | 32  | 8.0 - 32                   | No        | By-product of drinking water disinfection   |
| Barium (ppm)   | 2017/2018    | 2          | 2            | 0.021   | ND - 0.021                 | No        | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits                                |
| Nitrate/Nitrite (ppm)  | 2021         | 10         | 10           | 0.07  | 0 - 0.07                   | No        | Runoff from fertilizer use  |
| Uranium (ppb)  | 2017         | 30         | 0            | ND  | ND                         | No        | Erosion of natural deposits   |
| *The MCL for beta particles is 4 mrem/year. U.S. EPA considers 50 pCi/L to be the level of concern for beta particles. |              |            |              |   |                            |           |   |
| COPPER & LEAD - Tap water samples were collected for lead and copper analyses sample sites throughout the community.   |              |            |              |   |                            |           |   |
| SUBSTANCE (UNIT OF MEASURE)  | Year Sampled | AL         | MCLG         | Amount Detected (90 <sup>th</sup> Percentile) | Sites Above AL/Total Sites | Violation | Typical Source  |
| Copper (ppm)   | 2020         | 1.3        | 1.3          | 0.05  | 0                          | No        | Corrosion of household plumbing systems; Erosion of natural deposits  |
| Lead (ppb)   | 2020         | 15         | 0            | 1   | 0                          | No        | Corrosion of household plumbing systems; Erosion of natural deposits  |

| UNREGULATED CONTAMINANT MONITORING RULE - PART 4 (UCMR4) |              |                 |       |          |
|--|--------------|-----------------|-------|----------|
| SUBSTANCE (UNIT OF MEASURE)                              | Year Sampled | Amount Detected | Range | Low-High |
| HAA5 (ug/L)  | 2018/2019    | 3               | ND    | - 3      |
| HAA6Br (ug/L)  | 2018/2019    | 8.5             | ND    | - 8.5    |
| HAA9 (ug/L)  | 2018/2019    | 9.5             | 79    | - 390    |
| Manganese (ug/L)   | 2018/2019    | 30.9            | 5.3   | - 30.9   |
| Germanium (ug/L)   | 2018/2019    | 0.6             | ND    | - 0.6    |
| Bromide FS (ug/L)  | 2018/2019    | 97.1            | 66.6  | - 97.1   |

## Special Education Statements - Additional Information for Lead

If present, elevated levels of 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. PWS system 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 at 1-800-426-4791 or at <http://www.epa.gov/your-drinking-water/basic-information-about-lead-drinking-water>.

## 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 following information summarizes the results of those tests.

| Sampling Requirements | Sampling Conducted (months) | Total E. Coli Positive | Assessment Triggers | Assessments Conducted |
|-----------------------|-----------------------------|------------------------|---------------------|-----------------------|
| 1 Samples due monthly | 12 out of 12                | 0                      | 0                   | 0                     |

## Public Notice for Monitoring/Reporting and Other Violations

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the period covered by this report, we did not complete all monitoring or testing for the contaminants listed below, and therefore cannot be sure of the quality of your drinking water during that time. Violations which have not been returned to compliance will be repeated annually. The table below lists the contaminants we did not properly test for or other violations during the report period.

| Contaminant Name                   | Type of Violation                        | Begin/End Date | Steps Taken to Correct the Violation    | Return to Compliance | Return Date | Action Comment |
|------------------------------------|--|----------------|---|----------------------|-------------|----------------|
| Revised Total Coliform Rule (RTCR) | Error in adherence to Sample Siting Plan | 04/01/2016 -   | Approval of required Sample Siting Plan |                      |             |                |

## Definitions

| <u>Term</u>              | <u>Definition</u>  |
|--------------------------|--|
| ppm                      | parts per million, or milligrams per liter (mg/L)  |
| ppb                      | parts per billion, or microgram per liter (ug/L)   |
| positives samples        | the number of positive samples taken that year   |
| % positive samples/month | percent of samples taken monthly that were positive  |
| pCi/L                    | picocuries per liter   |
| ND                       | Not detected   |
| N/A                      | Not applicable   |
| 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.                     |
| MCL                      | Maximum Contaminant Level: 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. |
| MRDL                     | Maximum Residual Disinfectant Level  |
| MRDLG                    | Maximum Residual Disinfectant Level Goal   |
| TT                       | Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.   |
| AL                       | Action Level: The concentration of copper and lead in potable water which determines if treatment requirements are necessary for a public water system.  |
| 90th Percentile          | Statistical value used to determine if Action Level is exceeded. Determined by calculating the value at which 90% of the samples tested were below that value.                                 |

**What should I do, as a consumer?**  
There is nothing you need to do at this time.

**What is being done by the utility?**  
We will work with our regulatory official to conduct all required contaminant monitoring as directed.