

# 2024 Consumer Confidence Report for Public Water System CITY OF BYNUM BLACKLAND SYSTEM – TX1090048

This is your water quality report for January 1 to December 31, 2024

For more information regarding this report contact:

CITY OF BYNUM BLACKLAND SYSTEM provides surface water and ground water from **Brandon-Irene WSC/Lake Aquilla** located in **Hill County, Texas**.

**Buster Russell – Operator: (254) 479-0750**  
**City of Bynum – (254) 623-4400**

***Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (254) 479-0750.***

## Public Participation

**The City of Bynum Council Meetings are held the 2<sup>nd</sup> Wednesday of each month.**

### Information about your Drinking Water

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.

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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

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 be naturally-occurring or result from urban storm water 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 storm water 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 storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800-426-4791).

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. We are responsible for providing high quality drinking water, but we 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 <http://www.epa.gov/safewater/lead>.

Information about Source Water

CITY OF BYNUM BLACKLAND SYSTEM purchases water from BRANDON-IRENE WSC. BRANDON-IRENE WSC provides purchase surface water from **Aquilla Lake, Hill County, Texas**. No Source Water Assessment for your drinking water source(s) has been conducted by the TCEQ for your water system. The report describes the susceptibility and the types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information in this assessment allows us to focus our source water protection strategies.

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination  |
|-----------------|--------------|------|-------------------|-----------------|-----------------|-------|-----------|---|
| Copper          | 2024         | 1.3  | 1.3               | 0.15            | 0               | ppm   | N         | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead            | 2024         | 0    | 15                | 4.1             | 0               | ppb   | N         | Corrosion of household plumbing systems; Erosion of natural deposits.                                   |

2024 Water Quality Test Results

| Disinfection By-Products | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG                  | MCL | Units | Violation | Likely Source of Contamination             |
|--------------------------|-----------------|------------------------|-----------------------------|-----------------------|-----|-------|-----------|--|
| Haloacetic Acids (HAA5)  | 2024            | 40                     | 40.1 - 40.1                 | No goal for the total | 60  | ppb   | N         | By-product of drinking water disinfection. |

\*The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year

|                              |      |    |             |                       |    |     |   |  |
|------------------------------|------|----|-------------|-----------------------|----|-----|---|--|
| Total Trihalomethanes (TTHM) | 2024 | 31 | 31.1 - 31.1 | No goal for the total | 80 | ppb | N | By-product of drinking water disinfection. |
|------------------------------|------|----|-------------|-----------------------|----|-----|---|--|

\*The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

| Inorganic Contaminants         | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination   |
|--------------------------------|-----------------|------------------------|-----------------------------|------|-----|-------|-----------|--|
| Nitrate [measured as Nitrogen] | 2024            | 0.185                  | 0.185 - 0.185               | 10   | 10  | ppm   | N         | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |

Disinfectant Residual

| Disinfectant Residual | Year | Average Level | Range of Levels Detected | MRDL | MRDLG | Unit of Measure | Violation (Y/N) | Source in Drinking Water                 |
|-----------------------|------|---------------|--------------------------|------|-------|-----------------|-----------------|--|
| Chloramines (Total)   | 2024 | 1.41          | 1.01 – 2.71              | 4    | 4     | ppm             | N               | Water additive used to control microbes. |

# 2024 Water Quality Test Results Brandon-Irene WSC – TX1090018

## Information about Source Water

BRANDON-IRENE WSC purchases water from AQUILLA WSD. AQUILLA WSD provides purchased surface water from Lake Aquilla, Hill County, Texas. TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact **[insert water system contact Brandon-Irene WSC at (254) 632-4120.**

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination  |
|-----------------|--------------|------|-------------------|-----------------|-----------------|-------|-----------|---|
| Copper          | 2024         | 1.3  | 1.3               | 0.162           | 0               | ppm   | N         | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead            | 2024         | 0    | 15                | 0.7             | 1               | ppb   | N         | Corrosion of household plumbing systems; Erosion of natural deposits.                                   |

| Disinfection By-Products | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG                  | MCL | Units | Violation | Likely Source of Contamination             |
|--------------------------|-----------------|------------------------|-----------------------------|-----------------------|-----|-------|-----------|--|
| Haloacetic Acids (HAA5)  | 2024            | 22                     | 6.2 - 25                    | No goal for the total | 60  | ppb   | N         | By-product of drinking water disinfection. |

\*The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year

|                              |      |    |           |                       |    |     |   |  |
|------------------------------|------|----|-----------|-----------------------|----|-----|---|--|
| Total Trihalomethanes (TTHM) | 2024 | 24 | 8.98 - 54 | No goal for the total | 80 | ppb | N | By-product of drinking water disinfection. |
|------------------------------|------|----|-----------|-----------------------|----|-----|---|--|

\*The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

| Inorganic Contaminants         | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination   |
|--------------------------------|-----------------|------------------------|-----------------------------|------|-----|-------|-----------|--|
| Arsenic                        | 2024            | 1.3                    | 1.3 - 1.3                   | 0    | 10  | ppb   | N         | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.                    |
| Barium                         | 2024            | 0.085                  | 0.085 - 0.085               | 2    | 2   | ppm   | N         | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.                                |
| Fluoride                       | 2024            | 1.56                   | 0.581 - 1.56                | 4    | 4.0 | ppm   | N         | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |
| Nitrate [measured as Nitrogen] | 2024            | 1                      | 0.0219 - 0.519              | 10   | 10  | ppm   | N         | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.                               |

| Radioactive Contaminants | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--------------------------|-----------------|------------------------|-----------------------------|------|-----|-------|-----------|--------------------------------|
| Combined Radium 226/228  | 2024            | 1.5                    | 1.5 - 1.5                   | 0    | 5   | pCi/L | N         | Erosion of natural deposits.   |

## Violations

| Consumer Confidence Rule   |                 |               |  |
|--|-----------------|---------------|--|
| The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of the water delivered by the systems. |                 |               |  |
| Violation Type   | Violation Begin | Violation End | Violation Explanation  |
| CCR ADEQUACY/AVAILABILITY/CONTENT  | 07/01/2023      | 02/28/2025    | We failed to provide to you, our drinking water customers, an annual report that adequately informed you about the quality of our drinking water and the risks from exposure to contaminants detected in our drinking water. |
| CCR ADEQUACY/AVAILABILITY/CONTENT  | 07/02/2024      | 02/28/2025    | We failed to provide to you, our drinking water customers, an annual report that adequately informed you about the quality of our drinking water and the risks from exposure to contaminants detected in our drinking water. |

| Lead and Copper Rule  |                 |               |   |
|---|-----------------|---------------|---|
| The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials. |                 |               |   |
| Violation Type  | Violation Begin | Violation End | Violation Explanation   |
| FOLLOW-UP OR ROUTINE TAP M/R (LCR)  | 07/01/2024      | 2024          | We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated. |

| Public Notification Rule  |                 |               |  |
|---|-----------------|---------------|--|
| The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency). |                 |               |  |
| Violation Type  | Violation Begin | Violation End | Violation Explanation  |
| PUBLIC NOTICE RULE LINKED TO VIOLATION  | 04/02/2022      | 02/28/2025    | We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations. |
| PUBLIC NOTICE RULE LINKED TO VIOLATION  | 12/01/2024      | 03/06/2025    | We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations. |

**LEAD SERVICE LINE INVENTORY:** City of Bynum Blackland System performed and prepared a lead service line inventory as required by TCEQ. Copies of this inventory can be obtained by contacting Buster Russell, Operator: (254) 479-0750.

## Definitions and Abbreviations

|  |  |
|--|--|
| Definitions and Abbreviations                      | The following tables contain scientific terms and measures, some of which may require explanation.   |
| Action Level:                                      | The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.  |
| Avg:   | Regulatory compliance with some MCLs are based on running annual average of monthly samples.   |
| Level 1 Assessment:                                | A Level 1 assessment is 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 Level 2 assessment is 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. |
| Maximum Contaminant Level or 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 or 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.   |
| Maximum residual disinfectant level or 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.  |
| 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.   |
| MFL  | million fibers per liter (a measure of asbestos)   |
| mrem:  | millirems per year (a measure of radiation absorbed by the body)   |
| na:  | not applicable.  |
| NTU  | nephelometric turbidity units (a measure of turbidity)   |
| pCi/L  | picocuries per liter (a measure of radioactivity)  |
| ppb:   | micrograms per liter or parts per billion  |
| ppm:   | milligrams per liter or parts per million  |
| ppq  | parts per quadrillion, or picograms per liter (pg/L)   |
| ppt  | parts per trillion, or nanograms per liter (ng/L)  |
| Treatment Technique or TT:                         | A required process intended to reduce the level of a contaminant in drinking water.  |