2022 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, 2022

CITY OF BYNUM BLACKLAND SYSTEM provides Purchased Surface Water and Ground Water from **Brandon-Irene WSC/Lake Aquilla**, Hill County, TX.

For more information regarding this report contact:

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 2nd Wednesday of each month.

Source Water Name
SW from Brandon-Irene WSC
Brandon-Irene SW from Lake Aquilla

CC From TX 1090018 SW SW

Information about your Drinking Water

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 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

a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791 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

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
- or farming 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
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses
- storm water runoff, and septic systems 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
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities

contaminants in bottled water which must provide the same protection for public health 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

or color of drinking water, please contact the system's business office. 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

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 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 risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

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. 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 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 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

Information about Source Water

BRANDON-IRENE WSC purchases water from AQUILLA WSD. AQUILLA WSD provides purchase surface water from Lake Aquilla, Hill County, TX.

Brandon-Irene WSC 2022 Water Quality Test Results - TX1090018

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 Brandon-Irene WSC at (254) 632.4120 or (254) 707-1241.

Coliform Bacteria

0	Maximum Contaminant Level Goal
1 positive monthly sample.	Total Coliform Maximum Contaminant Level
2	Highest No. of Positive
	Highest No. of Positive Fecal Coliform or E. Coli Maximum Contaminant Level or Fecal Coliform Samples
0	Total No. of Positive E. Coli or Fecal Coliform Samples
z	Violation
Naturally present in the environment.	Likely Source of Contamination

	- 50,00	1	-
	Copper		Lead and Copper
	2022		Date Sampled
	1.3		MCLG
	1.3		Action Level (AL)
	0.1351		90th Percentile # Sites Over AL
	0		# Sites Over AL
	mdd		Units
	Z		Violation
preservatives; Corrosion of household plumbing systems.	Erosion of natural deposits; Leaching from wood		Likely Source of Contamination

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Violation Likely Source of Contamination
Haloacetic Acids (HAA5)	2022	16	8.1 - 19.3	No goal for the total	60	dad	Z	By-product of drinking water disinfection.

10tal Trihalomethanes (TTHM) 2022 10 6.65 - 14.6 No goal for the total Ppb N By-product of drinking water disinfectic									
10					total				
	By-product of drinking water disinfection	z	ppb	80	No goal for the	6.65 - 14.6	10	2022	Total Trihalomethanes (TTHM)

ue 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	2022	3. 80	2.4 - 3.8	0	10	ppb	z	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium	2022	0.083	0.072 - 0.083	2	2	ppm	z	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	2022	13	8.4 - 13	100	100	ppb	z	Discharge from steel and pulp mills; Erosion of natural deposits.

Erosion of natural deposits.	Z	pCi/L	5	0	1.5 - 1.5	1.5	06/12/2018	Combined Radium 226/228
Likely Source of Contamination	Violation	Units	MCL	MCLG	Range of Individual Samples	Highest Level Detected	Collection Date	Radioactive Contaminants
Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	Z	ppm	10	10	0.0511 - 0.121	0.121	2022	Nitrate [measured as Nitrogen]
Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	Z	ppm	4.0	4	0.769 - 1.9	1.9	10/11/2021	Fluoride

Violations

Chlorine

Violation Type Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort. Violation Begin

Violation Type	Violation Begin	Violation End	Violation Explanation
Disiniectant Level Quarterly Operating Report	04/01/2022	06/30/2022	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of
(DEQOR).			the quality of our drinking water during the period indicated.

E. coli

Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised immune systems.

Violation Type	Violation Begin	Violation End	Violation Explanation
MONITOR GWR TRIGGERED/ADDITIONAL, MAJOR	05/05/2022	06/21/2022	We failed to collect follow-up samples within 24 hours of learning of the total coliform-positive sample. These needed to be tested for fecal indicators from all sources that were being used at the time the positive sample was collected.
MONITOR GWR TRIGGERED/ADDITIONAL, MINOR	05/31/2022	09/21/2022	We failed to collect all the required follow-up samples within 24 hours of learning of the total collform-positive sample. These needed to be tested for fecal indicators from all sources that were being used at the time the positive sample was collected.

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.

Violations

the quality of our drinking water during the period indicated.			
We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of	2022	10/01/2022	FOLLOW-UP OR ROUTINE TAP M/R (LCR)
the quality of our drinking water during the period indicated.			
We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of	10/07/2022	10/01/2021	FOLLOW-UP OR ROUTINE TAP M/R (LCR)

Public Notification Rule

(e.g., a boil water emergency) 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

Violation Type	Violation Begin	Violation End	Violation Explanation
PUBLIC NOTICE RULE LINKED TO VIOLATION	04/02/2022	2022	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations

City of Bynum Blackland System 2022 Water Quality Test Results - TX 1090048

Information about Source Water

CITY OF BYNUM BLACKLAND SYSTEM purchases water from BRANDON-IRENE WSC. BRANDON-IRENE WSC provides purchased 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.

Date Sampled MCLG Action Level (AL) 90th Percentile # Sites Over AL Units Violation Likely Source of Contamination O9/28/2021 1.3 1.3 0.2512 0 ppm N Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	Copper	Lead and Copper
Action Level (AL) 90th Percentile # Sites Over AL Units Violation 1.3 0.2512 0 ppm N	09/28/2021	Date Sampled
Units Violation	1.3	MICLG
Units Violation	1.3	Action Level (AL)
Units Violation	0.2512	90th Percentile
Units Violation	0	# Sites Over AL
	ppm	
Likely Source of Contamination Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	z	Violation
18	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	Likely Source of Contamination

Disinfection By-Products Collection Date Highest Level Range of MCLG Detected Individual Samples		MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5) 2022 15 15.3 - 15.3 No goal for total	No g	ne 60	ppb	z	By-product of drinking water disinfection.

Commindent in the medical average of all nAAS sample results collected at a location over a year

*The value in the Highest Level or	Total Trihalomethanes (TTHM)
r Average Detec	2022
tod column is the high	12
	12 - 12
	No goal for the total
	80
	ppb
	z
	By-product of drinking water disinfection.

Inorganic Contaminants	Collection Date Highest Level Detected	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Violation Likely Source of Contamination
Nitrate [measured as	2022	0.137	0 137 - 0 137	ĵ	5	3	2	
Nitrogen]	in C for	0.107	0.107	ō	Ċ	ppm	z	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
			The state of the s					

Disinfectant Residual

Chloramines (Total) 2022 1.54 1.38 to 1.62 4 4 ppm N Water additive used to control microbes	Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
	Chloramines (Total)	2022	1.54	1.38 to 1.62	4	4	mdd	z	Water

Definitions and Abbreviations

Definitions and Abbreviations

Action Level:

Level 1 Assessment:

Level 2 Assessment:

Maximum Contaminant Level or MCL:

Maximum residual disinfectant level or MRDL: Maximum Contaminant Level Goal or MCLG:

Maximum residual disinfectant level goal or

microbial contaminants.

MFL MRDLG

mrem:

na:

pCi/L

Z

ppb:

ppm ppq

Treatment Technique or TT:

The following tables contain scientific terms and measures, some of which may require explanation.

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Regulatory compliance with some MCLs are based on running annual average of monthly samples

found in our water system 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

has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions. 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

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

The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of 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.

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.

million fibers per liter (a measure of asbestos)

millirems per year (a measure of radiation absorbed by the body)

not applicable

nephelometric turbidity units (a measure of turbidity)

picocuries per liter (a measure of radioactivity)

micrograms per liter or parts per billion

milligrams per liter or parts per million

parts per quadrillion, or picograms per liter (pg/L)

parts per trillion, or nanograms per liter (ng/L)

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