2024 Consumer Confidence Report for Public Water System BLAIR WSC

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

For more information regarding this report contact:

BLAIR WSC provides surface water from Lake Fort Phantom, Lake Ivie and Hubbard Creek Lakes located in Jones, Stephens, Concho, Coleman and Runnels Counties.

Name Blair Water Supply Corporation

Phone (325) 928-1011 or (325) 669-4320

liamar al telefono (325) 928-1011 Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de

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

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

Level 2 Assessment:

Avg:

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. 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 has occurred

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

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

million fibers per liter (a measure of asbestos)

MFL

mrem:

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

nephelometric turbidity units (a measure of turbidity)

picocuries per liter (a measure of radioactivity)

pCI/L OTN na:

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Definitions and Abbreviations

ppb: milligrams per liter or parts per millior micrograms per liter or parts per billion

ppm:

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

Information about your Drinking Water

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. 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

Hotline at (800) 426-4791. necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe 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

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

regulations establish limits for 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

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.

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 immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with Hotline (800-426-4791) You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or

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 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 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. 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 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

Information about Source Water

BLAIR WSC purchases transported water from CITY OF MERKEL. CITY OF MERKEL provides purchase surface water from City of Abilene located in Taylor County

BLAIR WSC purchases water from CITY OF ABILENE. CITY OF ABILENE provides purchase surface water from Lake Fort Phantom (Jones County), Lake Hubbard (Stephens County and Lake Ivie (Concho, Coleman and **Runnels Counties)**

TCEQ completed a Source Water Susceptibility for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the drinking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system contact Blair Water Supply Corporation (325) 928-1011 or Royce Fowler (325) 669-4320.

Coliform Bacteria

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile # Sites Over AL	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/21/2023	1.3	1.3	0.209	0	ppm	2	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing
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2024 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Violation Likely Source of Contamination
Haloacetic Acids (HAA5)	2024	26	14.5 - 43.6	No goal for the total	60	ppb	z	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	2024	55	42.9 - 77.4	No goal for the total	80	ppb	z	By-product of drinking water disinfection.
(TTHM)				total				

^{*}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	Violation Likely Source of Contamination
Nitrate [measured as Nitrogen]	2024	0.486	0.465 - 0.486	10	10	ppm	z	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Disinfectant Residual

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports

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

Lead Service Line Inventory

Blair Water Supply Corporation has developed an inventory of both Blair Water Supply-owned and customer-owned service lines. This inventory serves as a crucial foundation for water systems to address a significant source of lead in drinking water. To access the inventory, please call our office at (325) 928-1011.

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.

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.

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

MFL: million fibers per liter (a measure of asbestos)

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

pCi/L: picocuries per liter (a measure of radioactivity)

ppq: parts per quadrillion, or picograms per liter (pg/L) ppm; milligrams per liter or parts per million-or one ounce in 7,350 gallons of water.

na: not applicable

NTU: nephelometric turbidity units (a measure of turbidity)
ppb: micrograms per liter or parts per billion-or one ounce in 7,350,000 gallons of water
ppt: parts per trillion, or nanograms per liter (ng/L)

Disinfectant (Chloramine) levels Testing Results in the City of Merkel Distribution System

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Disinfectant used to control microbes	Z	ppm	4.0	4.0	11.0	0.42	2.3	2024	Chloramines 2024
		Measurement			m Leve)	m Level	e Level	Range	
Source of Chemical	Violation Source	Unit of	MRDL MRDLG Unit of	MRDL		Minimu	Averag	Year of	Disinfectant Year of Averag Minimu Maximu
		THE CITY OF MICHAEL PROPERTY OF SECTION	מומות שומנו	G CITA CL	Vesures III mil	allilled leading teaming treating in	and the state of t	Creative College	Distilled

Microbiological (Coliforms) Testing Results in the City of Merkel System

environment				Month which are total coliform positive		
Naturally present in	2		0	Two or more samples collected in a	07/08/2024	Coliform bacteria
Likely Source of Contaminant	Violation	Total Number of Positive E. coli or Total Coliform Samples	E. coli Maximum Contaminant Level	Sample Year Total Coliform Maximum Contaminant Level	Sample Year	Type of Contaminant

2024 Water Loss Audit Information

vstem	Regulated Contaminants Detected Regulated Contaminants in the City of Merkel Distribution System	Regulated Contaminants Detected Regulated
the distribution system		
Most of the water lost during 2024 was the result of flushing to maintain water quality or leaks in	13,032,729	January to December 2024
Comments and/or Explanations	Estimated Gallons of Water Lost During 2024	Time Period Covered by Audit

Definitions: Regulated Contaminants Detected Lead and Copper

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety. Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# of Sites Units Over AL	Units	Violation	Violation Likely Source of Contamination
Copper	08/17/2022 1.3	1.3	1.3	0.116	0	ppm	Z	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household
								plumbing systems.
Lead	08/17/2022	0	15	- 0	ъ	ddd	Z	Corrosion of household plumbing systems; Erosion of natural deposits.

Lead Service Line Inventory

address a significant source of lead in drinking water. To access the inventory, please visit <u>https://merkeltexas.com</u>/ The City of Merkel has developed an inventory of both City-owned and customer-owned service lines. This inventory serves as a crucial foundation for water systems to

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Runoff from tertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	Z	ppm	10	10	0.392- 0.392	0.392	2024	Nitrate [measured as Nitrogen]
Likely Source of Contamination	Violation	Units	MCL	MCLG	Range of Levels Detected	Highest Level Detected	Collection Date	Inorganic Contaminants
By-product of drinking water disinfection.	z	ppb	80	No Goal for the Total	34.4-66.9	48	2024	Total Trihalomethanes (TTHM)
By-product of drinking water disinfection.	z	ppb	60	No Goal for the Total	15.5-20.1	18	2024	Haloacetic Acids (HAA5)
					Detected	Detected	Date	Disinfectants and Disinfection By-Products

City of Merkel purchases water from CITY OF ABILENE. CITY OF ABILENE provides purchase surface water from WEST CENTRAL TEXAS MWD located in STEPHENS county.

Regulated Contaminants in the Source Water - City of Abilene	s in the Source	Water - City of A	bilene			-		
Lead and	Date	MCLG	Action Level (AL)	Percentile	# Sites	Units	Violation	Likely Source of Contamination
Copper	Sampled				Over AL	***************************************		
Copper	07/21/2023	1.3		0.249	0	ppm	z	preservatives; Corrosion of household plumbing systems.
Disinfection	Collection	Highest	Range of Individual	MCLG	MCL	Units	Violation	Likely Source of Contamination
By-Products	Date	Level Detected	Samples					
Chlorite	2024	0.92	0.000283 0.92	0.8	1	ppm	Z	By-product of drinking water disinfection.
Haloacetic Acids	2024	21	12 - 24.9	No Goal for 60 the total	60	ppm	z	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2024	54	15.9 - 60	No Goal for the total	80	ppb	z	By-product of drinking water disinfection.

ppm N ppm N ppm N pci/L* N	4 4.0 10 10 10 MCLG MC	O MC	7.7-10.7			The state of the s
ppm N t t		MC		10.7	2024	Beta/photon emitters
ppm N N N N N N N N N N N N N N N N N N	10		Range of Levels Detected	Highest Level Detected	Collection Date	Radioactive Contaminants
n mdd	4.0	10	0.0403-0.247	0.247	2024	Nitrate [measured as Nitrogen]
		4	0.822-0.841	0.8	2024	Fluoride
200 pbb N Discharge from plastic and fertilizer factories; Discharge from	200	200	25.6-206	206	2024	Cyanide
100 ppb N Discharge from steel and pulp mills; Erosion of natural deposits		100	0-1.7	1.7	2024	Chromium
2 ppm N Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits	2	N	0.16-0.18	0.18	2024	Barium
10 ppb N Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.	10	٥	0-1.1	4	2024	Arsenic
MCL Units Violation Likely Source of Contamination	-	MCLG	Range of Levels Detected	Highest Level Detected	Collection Date	Inorganic Contaminants

	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest Single measurement	0.19 NIU	1 NI U	z	Soil runoff.
Lowest monthly % meeting Limit	100%	03 NTI	2	

Unregulated Contaminants Detected

	PFBS	PF	PF	PFOS	PFOA	PF	¥	ರಿಕ
	38	PFHxA	PFHpA	os	OA ·	PFPeA	Lithium	Unregulated Contaminant
06/12/2024	06/12/2024	06/12/2024	06/12/2024	06/12/2024	06/12/2024	06/12/2024	06/12/2024	Collection Date
0.0202	0.00688	0.0214	0.0096	0.0256	0.00714	0.0164	28.9	Results (µg/L)
NA	NA	3	NA	NA	NA	NA	10	Health-Based Reference Concentration (µg/L) (recommended, not require the CCR)
This data is part of UCMR5 results in relation to minimum reporting levels and	This data is part of UCMR5 results in relation to minimum reporting levels and available regulatory health-based reference concentrations.	This data is part of UCMR5 results in relation to minimum reporting levels and available regulatory health-based reference concentrations.	This data is part of UCMR5 results in relation to minimum reporting levels and available regulatory health-based reference concentrations.	This data is part of UCMR5 results in relation to minimum reporting levels and available regulatory health-based reference concentrations.	This data is part of UCMR5 results in relation to minimum reporting levels and available regulatory health-based reference concentrations.	This data is part of UCMR5 results in relation to minimum reporting levels and available regulatory health-based reference concentrations.	This data is part of UCMR5 results in relation to minimum reporting levels and available regulatory health-based reference concentrations.	Health Information Summary (recommended, not required in the CCR)