2023 Consumer Confidence Report for Public Water System Wichita Valley WSC

This is your water quality report for January 1 to December 31, 2023

CITY OF ARCHER CITY provides Surface Water from **Lake Kickapoo,** located in **Archer County.**.

For more information regarding this report contact:

Name Danny C. Parker

Phone 940-723-6394

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (940) 723-6394.

Definitions and Abbreviations

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Avg:	Regulatory compliance with some MCLs ar
Level 1 Assessment:	A Level 1 assessment is a study of the wat *found in our water system.*
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Maximum Contaminant Level Goal or MCLG:	The level of a contaminant in drinking wate
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MFL	million fibers per liter (a measure of asbesto
mrem:	millirems per year (a measure of radiation a
na:	not applicable.
NTU	nephelometric turbidity units (a measure of
pCi/L	picocuries per liter (a measure of radioactiv

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ppb:	micrograms per liter or parts per billion
ppm:	milligrams per liter or parts per million
ppq	parts per quadrillion, or picograms per liter
ppt	parts per trillion, or nanograms per liter (ng/
Treatment Technique or TT:	A required process intended to reduce the l

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 EPAs 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.

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

During the past year we were required to conduct 1 (one) Level 1 assessment. 1 (one) Level 1 assessment(s) were completed. In addition, we were required to take 3 (three) corrective actions and we completed 3 (three) of these actions.

Information about Source Water

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] [insert phone number]**

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Like

Copper	07/21/2022	1.3	1.3	0.0873	0	ppm	N	Eros woo plun
Lead	07/21/2022	0	15	0.7	0	ppb	N	Corr Eros

2023 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely
Haloacetic Acids (HAA5)	2023	15	7.6 - 18.8	No goal for the total	60	ppb	N	By-proc

*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)	2023	44	31.7 - 55.1	No goal for the total	80	ppb	N	By-proc

*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
Arsenic	2023	1	1 - 1	0	10	ppb	N	Erosion orchard product
Barium	2023	0.21	0.21 - 0.21	2	2	ppm	N	Dischar metal re
Chromium	2023	5.4	5.4 - 5.4	100	100	ppb	N	Dischar natural
Cyanide	2023	85.3	85.3 - 85.3	200	200	ppb	N	Dischar Dischar
Fluoride	2023	0.3	0.329 - 0.329	4	4.0	ppm	N	Erosion promot and alu
Nitrate [measured as Nitrogen]	2023	0.0738	0.0738 - 0.0738	10	10	ppm	N	Runoff tanks, s

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely S
Beta/photon emitters	03/23/2022	8	8 - 8	0	50	pCi/L*	N	Decay o

*EPA considers 50 pCi/L to be the level of concern for beta particles.

Combined Radium 226/228	03/23/2022	1.5	1.5 - 1.5	0	5	pCi/L	N	Erosion

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 (DLQOR).

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Sou
Chlorine	2023	2.4	1.0-3.8	4	4	ppm	N	Wat

Turbidity

	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest single measurement	0.17 NTU	1.0 NTU	N	Soil runoff.
Lowest monthly % meeting limit	100%	0.30 NTU	N	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

2023 Consumer Confidence Report for Public Water System Wichita Valley WSC

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CITY OF WICHITA FALLS provides Surface Water from Lake Kemp and Lake Diversion in Baylor County, Lake Kickapoo in Archer County and Lake Arrowhead in Clay County..

For more information regarding this report contact:

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Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Like
Copper	2023	1.3	1.3	0.0837	0	ppm	N	Eros wood plum

Lead	2023	0	15	0.7	0	ppb	N	Corr Eros

2023 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely S
Chlorite	2023	0.67	0.53 - 0.67	0.8	1	ppm	N	By-proc

Haloacetic Acids (HAA5)	2023	18	1 - 25.3	No goal for the total	60	ppb	N	By-proc

*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)	2023	31	9.76 - 42.3	No goal for the total	80	ppb	N	By-proc

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Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely S
Arsenic	2023	1	0 - 1.2	0	10	ppb	N	Erosion orchard product
Barium	2023	0.04	0.036 - 0.04	2	2	ppm	N	Dischar metal re
Cyanide	2023	46	0 - 46	200	200	ppb	N	Dischar Dischar
Fluoride	2023	0.6	0.546 - 0.636	4	4.0	ppm	N	Erosion promot and alu
Nitrate [measured as Nitrogen]	2023	0.158	0.0791 - 0.158	10	10	ppm	N	Runoff tanks, s
Nitrite [measured as Nitrogen]	08/17/2022	0.14	0.14 - 0.14	1	1	ppm	N	Runoff tanks, s

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely S
Beta/photon emitters	2023	12.3	12.3 - 12.3	0	50	pCi/L*	N	Decay c

*EPA considers 50 pCi/L to be the level of concern for beta particles.

Combined Radium 226/228	2023	1.5	1.5 - 1.5	0	5	pCi/L	N	Erosion

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Turbidity

	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest single measurement	0.29 NTU	1 NTU	N	Soil runoff.
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Total Organic Carbon

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2023 Consumer Confidence Report for Public Water System WICHITA VALLEY WSC

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WICHITA VALLEY WSC provides Surface Water from Lake Kickapoo, reservoir, located in Archer County.

For more information regarding this report contact:

Name Danny C. Parker

Phone 940-723-6394

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Information about Source Water

WICHITA VALLEY WSC purchases water from CITY OF ARCHER CITY. CITY OF ARCHER CITY provides surface water from **Lake Kickapoo** located in **Archer County.**

WICHITA VALLEY WSC purchases water from CITY OF WICHITA FALLS. CITY OF WICHITA FALLS provides surface water from **Lake Kemp and Lake Diversion located in Baylor County, Lake Kickapoo** located in Archer County and Lake Arrowhead Located in Clay County.

WICHITA VALLEY WSC purchases water from CITY OF IOWA PARK. CITY OF IOWA PARK provides purchase surface water from **Lake Kemp and Lake Diversion located in Baylor County, Lake Kickapoo** located in Archer County and **Lake** Arrowhead Located in Clay County.

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Coliform Bacteria

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Like
Copper	2023	1.3	1.3	0.0873	0	ppm	N	Eros wooc plum
Lead	2023	0	15	0.7	0	ppb	N	Corr Eros

2023 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely
Haloacetic Acids (HAA5)	2023	18	12.7 - 19.7	No goal for the total	60	ppb	N	By-proc

*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)	2023	44	15.3 - 55.2	No goal for the total	80	ppb	N	By-proc

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Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely
Arsenic	2023	2	1.7 - 1.7	0	10	ppb	N	Erosion orchard product
Barium	2023	0.2	0.2 - 0.2	2	2	ppm	N	Dischar metal re

Chromium	2023	3	3 - 3	100	100	ppb	N	Dischar natural

Cyanide	2023	41.1	41.1 - 41.1	200	200	ppb	N	Dischar Dischar
Fluoride	2023	0.3	0.342 - 0.342	4	4.0	ppm	N	Erosion promot and alu
Nitrate [measured as Nitrogen]	2023	0.181	0.0368 - 0.181	10	10	ppm	N	Runoff tanks, s

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely
Beta/photon emitters	03/09/2022	7.6	7.6 - 7.6	0	50	pCi/L*	N	Decay

*EPA considers 50 pCi/L to be the level of concern for beta particles.

Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely
Di (2-ethylhexyl) phthalate	2023	1	0 - 0.5	0	6	ppb	N	Dischar

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Chlorine	2023	2.4	1.0-3.8	4	4	ppm	N	Wat

Turbidity

	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination

MAXT

Highest single measurement	0.95 NTU	1 NTU	N	Soil runoff.
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.

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