

# SHAWNEE CO RWD 3C

## Consumer Confidence Report – 2024

### Covering Calendar Year – 2023



This brochure is a snapshot of the quality of the water that we provided last year. Included are the details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies. If you would like to observe the decision-making process that affect drinking water quality, please call TAMMY WILTZ at 785-862-3305.

Our drinking water is supplied from another water system through a Consecutive Connection (CC). Your water comes from :

Buyer Name	Seller Name
SHAWNEE CO RWD 3C	CITY OF TOPEKA

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (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 a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) included 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.

Contaminants that may be present in sources water before we treat it include: Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, 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 storm water run-off, agriculture, and residential users. Radioactive contaminants, which can be naturally occurring or the result of mining activity. Organic contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also come from gas stations, urban storm water run-off, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulation which limits the amount of certain contaminants in water provided by public water systems. We treat our water according to EPA's regulations. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Our water system is required to test a minimum of 3 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public.

#### Water Quality Data

The following tables list all of the drinking water contaminants which were detected during the 2023 calendar year. The presence of these contaminants does not necessarily indicate the water poses a health risk. Unless noted, the data presented in this table is from the testing done January 1- December 31, 2023. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old. **The bottom line is that the water that is provided to you is safe.**

#### Terms & Abbreviations

**Maximum Contaminant Level Goal (MCLG):** the "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLGs allow for a margin of safety.

**Maximum Contaminant Level (MCL):** the "Maximum Allowed" MCL is 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.

**Secondary Maximum Contaminant Level (SMCL):** recommended level for a contaminant that is not regulated and has no MCL.

**Action Level (AL):** the concentration of a contaminant that, if exceeded, triggers treatment or other requirements.

**Treatment Technique (TT):** a required process intended to reduce levels of a contaminant in drinking water.

**Maximum Residual Disinfectant Level (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.

**Non-Detects (ND):** lab analysis indicates that the contaminant is not present.

**Parts per Million (ppm):** or milligrams per liter (mg/l)

**Parts per Billion (ppb):** or micrograms per liter (µg/l)

**Picocuries per Liter (pCi/L):** a measure of the radioactivity in water.

**Millirems per Year (mrem/yr):** measure of radiation absorbed by the body.

**Monitoring Period Average (MPA):** An average of sample results obtained during a defined time frame, common examples of monitoring periods are monthly, quarterly and yearly.

**Nephelometric Turbidity Unit (NTU):** a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is not regulated for groundwater systems.

**Running Annual Average (RAA):** an average of sample results obtained over the most current 12 months and used to determine compliance with MCLs.

**Locational Running Annual Average (LRAA):** Average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.



**Testing Results for: SHAWNEE CO RWD 3C**

Disinfection Byproducts	Monitoring Period	Highest RAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	2023	54	26.2 - 97	ppb	60	0	By-product of drinking water disinfection
TTHM	2023	52	43.1 - 64	ppb	80	0	By-product of drinking water chlorination

Lead and Copper	Monitoring Period	90 <sup>th</sup> Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2021 - 2023	0.041	0.004 - 0.063	ppm	1.3	0	Corrosion of household plumbing
LEAD	2021 - 2023	0	0 - 2.7	ppb	15	0	Corrosion of household plumbing

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. Your water 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 or at <http://www.epa.gov/safewater/lead>.

Chlorine/Chloramines Maximum Disinfection Level	MPA	MPA Units	RAA	RAA Units
2023 - 2023	3.7500	MG/L	3.4	MG/L

During the 2023 calendar year, we had the below noted violation(s) of drinking water regulations.

Compliance Period	Analyte	Comments
No Violations Occurred in the Calendar Year of 2023		

Additional Required Health Effects Language:

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. There are no additional required health effects violation notices.

Some or all of our drinking water is supplied from another water system. The table below lists all of the drinking water contaminants, which were detected during the 2023 calendar year from the water systems that we purchase drinking water from.

Regulated Contaminants	Collection Date	Water System	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
ARSENIC	5/22/2023	CITY OF TOPEKA	1	1	ppb	10	0	Erosion of natural deposits
ATRAZINE	6/27/2023	CITY OF TOPEKA	1.9	0.25 - 1.9	ppb	3	3	Runoff from herbicide used on row crops
BARIUM	5/22/2023	CITY OF TOPEKA	0.038	0.038	ppm	2	2	Discharge from metal refineries
FLUORIDE	1/24/2023	CITY OF TOPEKA	0.54	0.35 - 0.54	ppm	4	4	Natural deposits; Water additive which promotes strong teeth.
SELENIUM	5/22/2023	CITY OF TOPEKA	1.6	1.6	ppb	50	50	Erosion of natural deposits

Secondary Contaminants	Collection Date	Water System	Highest Value	Range (low/high)	Unit	SMCL
ALKALINITY, TOTAL	5/22/2023	CITY OF TOPEKA	65	65	MG/L	300
ALUMINUM	5/22/2023	CITY OF TOPEKA	0.033	0.033	MG/L	0.05
CALCIUM	5/22/2023	CITY OF TOPEKA	42	42	MG/L	200
CHLORIDE	5/22/2023	CITY OF TOPEKA	79	79	MG/L	250
CONDUCTIVITY @ 25 C UMHOS/CM	5/22/2023	CITY OF TOPEKA	560	560	UMHO/CM	1500
CORROSIVITY	5/10/2021	CITY OF TOPEKA	1.4	1.4	LANG	0
HARDNESS, TOTAL (AS CACO3)	5/22/2023	CITY OF TOPEKA	130	130	MG/L	400
MAGNESIUM	5/22/2023	CITY OF TOPEKA	6.4	6.4	MG/L	150
METOLACHLOR	5/22/2023	CITY OF TOPEKA	0.74	0.74	ppb	
NICKEL	5/22/2023	CITY OF TOPEKA	0.0024	0.0024	MG/L	0.1
PH	5/22/2023	CITY OF TOPEKA	9.5	9.5	PH	8.5
PHOSPHORUS, TOTAL	5/22/2023	CITY OF TOPEKA	0.44	0.44	MG/L	5
POTASSIUM	5/22/2023	CITY OF TOPEKA	7.7	7.7	MG/L	100
SILICA	5/22/2023	CITY OF TOPEKA	5.4	5.4	MG/L	50
SODIUM	5/22/2023	CITY OF TOPEKA	63	63	MG/L	100
SULFATE	5/22/2023	CITY OF TOPEKA	110	110	MG/L	250
TDS	5/22/2023	CITY OF TOPEKA	400	400	MG/L	500

**Please Note: Because of sampling schedules, results may be older than 1 year.**

During the 2023 calendar year, the water systems that we purchase water from had the below noted violation(s) of drinking water regulations.

**2023 Topeka Water Utility Summary**  
**Detected Contaminants In Treated Water Analyses**

**Regulated Contaminants**

Contaminant	Level Detected	Unit of Measure	MCL	MCLG	Date	Likely Source of Contamination
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*Inorganic Contaminants*

Arsenic	1.0	PPB	10	0	5/22/2023	Erosion of natural deposits.
Barium	38	PPB	2000	2000	5/22/2023	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	0.49 (Range 0.34 - 0.64)	PPM	4	4	Jan - Dec 2023	Water additive which promotes strong teeth.
Selenium	1.6	PPB	50	50	5/22/2023	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Copper (90th percentile) Range Number above AL	0.0324 0.0025 - 0.045 0	PPM	AL =1.3	1.3	Jun - Aug; Oct 2023*	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.
Lead (90th percentile) Range Number above AL	2.4 0 - 6.0 0	PPB	AL =15	0	Jun - Aug, Oct 2023*	Corrosion of household plumbing systems; Erosion of natural deposits.

\*Our system has monitored for copper and lead in specific homes identified with lead pipe or copper pipe with lead solder for several years. Due to the low levels detected, we now monitor these homes only once every three years.

*Organic Contaminants*

Atrazine	0.90 (0.25 - 1.9)	PPB	3	3	Jan - Dec 2023	Runoff from herbicide used on row crops.
Trihalomethanes	53 (Range 26 - 63.51)	PPB	80	N/A	Jan - Dec 2023	By-product of drinking water chlorination.
Chloramine	3.4 (MPA = 3.61)	PPM	MRDL MPA = 4	MRDLG = 4	Jan - Dec 2023	Water additive used to control microbes.
Haloacetic Acids (HAA5)	40 (Range 20 - 60.8)	PPB	60	N/A	Jan - Dec 2023	By-product of drinking water disinfection.

*Microbiological Contaminants*

Turbidity	*100% (Range 0.019 - 0.111 NTU)	NTU	TT= < 0.30 NTU 95% of time. TT= 1 NTU Maximum.	N/A	Jan - Dec 2023	Soil runoff. Turbidity is a measure of cloudiness in the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.
Total Coliform Bacteria	**0.97% (Range 0.0% - 0.97%)	%	<5% of Monthly Samples	0	Jan - Dec 2023	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present.
Total Organic Carbon	1.60 (Range 1.25 - 1.88)	Ratio	Removal Ratio TT > 1.0	N/A	Jan - Dec 2023	Naturally present in the environment.

\*Lowest Monthly % < 0.30 NTU, \*\*March, October, December

**Secondary Unregulated Contaminants**

Aluminum	0.033	PPM	N/A	N/A	5/22/2023	The likely source of contaminaton of most secondary contaminants is erosion of natural deposits. The most likely source of contamination of Metolachlor is runoff from herbicide used on row crops.
Calcium	42	PPM	N/A	N/A	5/22/2023	
Chloride	79	PPM	N/A	N/A	5/22/2023	
Magnesium	6.4	PPM	N/A	N/A	5/22/2023	
Nickel	0.0024	PPM	N/A	N/A	5/22/2023	
Potassium	7.7	PPM	N/A	N/A	5/22/2023	
Silica	5.4	PPM	N/A	N/A	5/22/2023	
Sodium	63	PPM	N/A	N/A	5/22/2023	
Sulfate	110	PPM	N/A	N/A	5/22/2023	
TDS	400	PPM	N/A	N/A	5/22/2023	
Total Phosphorus (as P)	0.44	PPM	N/A	N/A	5/22/2023	
pH	9.4 (Range 9.0 - 9.7)	pH unit	N/A	N/A	Jan - Dec 2023	
Specific Conductance	778 (Range 560 - 1038)	umhos/cm	N/A	N/A	Jan - Dec 2023	
Total Alkalinity (as CaCO3)	81 (Range 46 - 115)	PPM	N/A	N/A	Jan - Dec 2023	
Total Hardness (as CaCO3)	156 (Range 118 - 218)	PPM	N/A	N/A	Jan - Dec 2023	
Metolachlor	0.74	PPB	N/A	N/A	5/22/2023	



# 2023 Topeka Water Utility Summary

## Definitions of Key Terms

### Detected Contaminants in Treated Water Analyses Table

AL	Action Level	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
LRAA	Locational Running Annual Average	Average of sample analytical results for samples taken at a particular monitoring location during previous four calendar quarters.
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.
MCLG	Maximum Contaminant Level Goal	The level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLGs allow for a margin of safety.
MPA	Monitoring Period Average	An average of sample results obtained during a defined time frame (e.g. monthly, quarterly and yearly).
MRDL	Maximum Residual Disinfectant Level	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.
MRDLG	Maximum Residual Disinfectant Level Goal	The level of 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.
NTU	Nephelometric Turbidity Units	A measurement of water cloudiness.
PPB	Parts per Billion	Micrograms per liter.
PPM	Parts per Million	Milligrams per liter.
RAA	Running Annual Average	Average of sample results obtained over the most current 12 months and used to determine compliance with MCL.
TT	Treatment Technique	A required process intended to reduce the level of a contaminant in drinking water.
umhos/cm	Micro-mhos per Centimeter	A measurement of the ability of a solution to conduct an electrical current.