

# 2022 WATER QUALITY REPORT



DELIVERING HIGH QUALITY  
WATER TO YOUR TAP



# KC WATER

# A COMMITMENT TO QUALITY

Federal and state regulators require public water supply systems to report to customers on the quality of the water they drink. KC Water is proud to present this Water Quality Report, which includes required data on constituents in drinking water we delivered to customers in 2021.

Kansas City drinking water comes primarily from the Missouri River. With a watershed of more than 500,000 square miles covering all or part of 10 upper Midwest states and two Canadian provinces, the Missouri is one of the most reliable sources of water in the world.

KC Water's job is to draw water from the

Missouri; treat it and deliver it to customers; then collect and treat customer wastewater and return it safely to the river. In addition, KC Water manages the City's stormwater management system, including nearly 14 miles of river levees and flood walls protecting low-lying areas; and more than 600 miles of stormwater pipes throughout the City.

The Consumer Confidence Report (CCR) included herein summarizes water quality data for 2021, including information about constituents in drinking water, efforts taken to ensure drinking water is safe, and information for persons who may be vulnerable to contaminants in drinking water. Also included

in this Water Quality Report is additional information customers have said in satisfaction surveys they want to know:

- How drinking water is treated and delivered.
- Water infrastructure initiatives taking place in Kansas City.
- How water rates are determined, recommended and approved.
- How to get answers about service issues and financial help to pay water bills.

This CCR and Water Quality Report are online at [www.kcwater.us/about-us/reports](http://www.kcwater.us/about-us/reports). To receive printed copies, call 816-513-7000 or send an email to [water.communication@kcmo.org](mailto:water.communication@kcmo.org).

## Kansas City's Water Treatment Process



### 1. SOURCE

The intake pumps raw water from the Missouri River and well field, through screening equipment, to the water treatment plant.

### 2. SEDIMENTATION

Raw water enters into the basin where debris and other impurities are allowed to settle. Chemicals, which act like magnets to attract fine debris and impurities, are added during certain times of the year to improve the settling process and minimize cloudiness in the water.

### 3. SOFTENING & DISINFECTION

Raw water travels down channels where lime is added for softening and for improving taste and odor, and where chlorine is added for disinfection. This is where raw water begins its transformation into high-quality drinking water.

### 4. STABILIZATION

The water is stabilized to prevent corrosive properties from emerging, and any lime that is still present is allowed to settle. Depending on the seasonal conditions of the Missouri River, carbon can be added at this step of the process to improve taste and odor. The water is then stabilized to the proper pH.

### 5. FILTRATION

Finally, the water is filtered to remove calcium carbonate and any other impurities that may still exist. The water is filtered through 27" of fine sand, which catches and removes any remaining impurities. The drinking water is now finished and is ready for delivery to customers. The entire process takes about 18 hours to go from raw river water to high-quality drinking water. This important process takes place 24 hours a day, 365 days a year.

### 6. TRANSMISSION & DISTRIBUTION

Using large and powerful pumps, high-quality and great-tasting drinking water is sent through 2,800 miles of water pipes to elevated storage tanks, reservoirs, and ultimately to the taps of customers throughout KC.

## TREATMENT INVOLVES MANY STEPS

KC Water employees treat about 100 million gallons of Missouri River water every day for delivery to more than 500,000 residents and 32 wholesale customers, many of which are nearby local water utilities.

KC Water draws the water from the river; removes debris and mud; disinfects, and then softens and stabilizes the water. We filter the water again, and then deliver it citywide via four major pump stations, 14 re-pump stations, numerous water storage facilities, and approximately 2,800 miles of water mains.

Watch a short video about water treatment on the KC Water YouTube channel at <https://www.youtube.com/user/KCMOWater>. Search "From River to Tap: KC's Water Treatment Process."

# STRUGGLING WITH BILLS? ASSISTANCE IS AVAILABLE

KC Water understands when customers have difficulty paying monthly bills. Don't wait to contact us, because we can help you find assistance. Here are some of the ways.

**Mid America Assistance Coalition** can provide eligible customers up to \$500 in a 12-month period. Call 211 or 816-474-5112 or visit [www.211kc.org](http://www.211kc.org) to apply. The coalition also takes applications for the Low Income Household Water Assistance Program, which can provide eligible households a one-time payment up to \$750 to help pay for current or past due water and/or wastewater bills and disconnection and



reconnection fees. Call 816-831-1830 or visit <https://maaclihwap.org>.

## **Emergency Rental and Utility Assistance:**

The City of Kansas City, Mo. has funding for emergency rental or utility assistance, which is

being distributed through existing community agencies. Call 816-513-4501 or visit <https://www.kcmo.gov/city-hall/housing/emergency-rental-and-utilities-assistance>.

**KC Regional Housing Alliance** has resources available for renters and property owners at [www.kcregionalhousingalliance.org](http://www.kcregionalhousingalliance.org).

**KC Water** offers a payment arrangement so customers can spread out past due amounts over a specific period. Set up at [www.kcwater.us](http://www.kcwater.us) or call 816-513-1313 and select option 1.

More information: [www.kcwater.us/customer-support/financial-assistance-resources](http://www.kcwater.us/customer-support/financial-assistance-resources).

# MAINTAINING, IMPROVING KANSAS CITY'S WATER SYSTEMS

KC Water covers 319 square miles of Kansas City with a mesh of nearly 6,000 miles of pipelines, transporting fresh drinking water, wastewater and stormwater from and back to the Missouri River. Included are treatment plants, storage tanks, pump stations and other associated equipment and facilities.

KC Water annually updates a five-year Capital Improvements Plan by analyzing data and incorporating the best available technology with objectives of minimizing service interruptions, maximizing efficiency, replacing assets based on the most critical needs, protecting the community, and minimizing future operation and maintenance costs. More information: [www.kcwater.us/projects/capital-improvements](http://www.kcwater.us/projects/capital-improvements).

## **Water**

KC Water operates a treatment plant capable of producing up to 240 million gallons of fresh drinking water per day; four major pump stations; 14 re-pump stations; numerous water storage facilities, and approximately 2,800 miles of water mains. Treated water service

is provided to approximately 500,000 City residents plus thousands more area residents served by 32 wholesale customers. More information: [www.kcwater.us/about-us/water](http://www.kcwater.us/about-us/water).

## **Wastewater**

KC Water's wastewater collection and treatment services are provided to approximately 166,000 customers inside and outside Kansas City on a retail basis and thousands more through agreements with surrounding communities and sewage districts. KC Water maintains 40 wastewater pumping stations, 15 flood pumping stations, three effluent pumping stations and six wastewater treatment plants fed by approximately 2,800 miles of sanitary and combined sewers. More information: [www.kcwater.us/about-us/wastewater](http://www.kcwater.us/about-us/wastewater).

## **Stormwater**

KC Water manages 13.7 miles of levees and floodwalls along the Missouri River or its tributaries in the area; 630 miles of storm sewers; more than 53,000 stormwater inlets, and 15 flood pump stations. More information:

[www.kcwater.us/about-us/stormwater](http://www.kcwater.us/about-us/stormwater).

## **Major Projects**

KC Water is investing in the City's infrastructure to continue a legacy of providing quality water services for future generations. In particular:

- KC Water's Smart Sewer program is a \$2.3 billion, multidecade infrastructure investment to make sure sewer systems continue to work reliably and effectively. The program addresses systemwide overflow control challenges in a way that protects the community and restores this vital piece of Kansas City's infrastructure. More information at [www.kcsmartsewer.us](http://www.kcsmartsewer.us).
- KC Water's aging Blue River Wastewater Treatment Plant near Interstate 435 and Front Street is undergoing a makeover that will reduce adverse environmental impacts and recycle human and domestic waste into useful biosolids and biogas. More information at [www.blueriverbiosolids.com](http://www.blueriverbiosolids.com).

# STAYING IN TOUCH WITH KC WATER

## **We Reach Out to You**

**AlertKC:** A free text notification system. Register at <https://www.kcmo.gov/alertkc>

**Social Media:** Facebook: [www.facebook.com/kcmowater](http://www.facebook.com/kcmowater), Twitter: @kcmowater, Nextdoor: [www.nextdoor.com](http://www.nextdoor.com)

**Web Site:** [www.kcwater.us](http://www.kcwater.us), including Boil

## **Advisories and Orders**

([www.kcwater.us/boil-advisories-and-orders](http://www.kcwater.us/boil-advisories-and-orders)) and News [www.kcwater.us/news](http://www.kcwater.us/news).

## **You Can Contact Us**

Water main breaks, no water, low pressure, sewer backups or similar emergencies: Call 311 or visit [www.kcmo.gov](http://www.kcmo.gov) (311 tab in upper right

corner)

Customer Service: 816-513-1313 or [www.kcwater.us/customer-support](http://www.kcwater.us/customer-support)

General inquiries: [water.communications@kcmo.org](mailto:water.communications@kcmo.org)

Construction in your area: [water.projects@kcmo.org](mailto:water.projects@kcmo.org)





PUBLIC WATER SYSTEM ID NUMBER M01010415

# 2021 ANNUAL CONSUMER CONFIDENCE REPORT

*This report is intended to provide important information about your drinking water and efforts made to provide safe drinking water.*

## WHAT IS THE SOURCE OF WATER?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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. Our water comes from the following sources:

Source Name	Type
Missouri River	Surface Water
Well # 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14	Ground Water

A very small amount of our drinking water is supplied from another water system through a Consecutive Connection (CC). Results from those sources are provided in this report under “Reseller Contaminants.”

Buyer Name	Seller Name
KANSAS CITY PWS	JACKSON COUNTY PWSD 2
JACKSON COUNTY PWSD 2	INDEPENDENCE PWS

## SOURCE WATER ASSESSMENT

The Department of Natural Resources conducted a source water assessment to determine the susceptibility of our water source to potential contaminants. This process involved the establishment of source water area delineations for each well or surface water intake. Then a contaminant inventory was performed within those delineated areas to assess potential threats to each source. Assessment maps and summary information sheets are available at <https://drinkingwater.missouri.edu>. To access the maps for KC Water, enter the state-assigned identification code, M01010415. The Source Water Inventory Project maps and information sheets provide a foundation upon which a more comprehensive source water protection plan can be developed.

## WHY ARE THERE CONTAMINANTS IN MY 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 necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency’s Safe Drinking Water Hotline (800-426- 4791).

Contaminants that may be present in source water include:

- A. Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- B. Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- C. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- D. Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- E. Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

To ensure that tap water is safe to drink, the Department of Natural Resources prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Department of Health regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

# IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OUR OPERATIONS?

The Missouri Department of Natural Resources regulates our water system and requires us to test our water on a regular basis to ensure its safety. Our system has been assigned the identification number MO1010415 for the purpose of tracking test results. Last year, we tested for a variety of contaminants. The detectable results of these tests are on the following pages of this report. Any violations of state requirements or standards are explained in this report.

## HOW MIGHT I BECOME ACTIVELY INVOLVED?

If you would like to observe the decision-making process that affect drinking water quality or if you have any further questions about your drinking water report, please call us at 816-513-7000 to inquire about scheduled meetings or contact persons.

## DO I NEED TO TAKE ANY SPECIAL PRECAUTIONS?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons, such as persons 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.

## CONTAMINANTS REPORT

*During the 2021 calendar year, no violations of drinking water regulations occurred.*

The tables below list all the drinking water contaminants detected during 2021. KC Water will provide a printed hard copy of the CCR upon request. To request a copy of this report be mailed, please call 816-513-7000. The CCR also can be found at <https://www.kcwater.us/wp-content/uploads/2022/04/KC-Water-2021-CCR-3-040822.pdf>. The state has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Records with a sample year more than one year old are still considered representative. No data older than five years is included. If more than one sample is collected during the monitoring period, the Range of Sampled Results will show the lowest and highest tested results. The Highest Test Result, Highest LRAA, or Highest Value must be below the maximum contaminant level (MCL), or the contaminant has exceeded the level of health-based standards, and a violation is issued to the water system.

Regulated Contaminants	Collection Date	Highest Test Result	Range of Sampled Result(s)	Unit	MCL	MCLG	Typical Source	In Compliance
Atrazine	5/20/2021	0.46	ND - 0.46	ppb	3	3	Runoff from herbicide used on crops	✓
Barium	5/5/2021	0.01	0.01	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	✓
Chromium	2/28/2019	5	ND - 5	ppb	100	100	Discharge from steel and pulp mills	✓
Cyanide	3/4/2020	0.0058	ND - 0.0058	ppm	0.2	0.2	Discharge from steel/metal factories; discharge from plastic and fertilizer; factories	✓
Fluoride	5/5/2021	0.56	0.56	ppm	4	4	Natural deposits; water additive which promotes strong teeth	✓
Nitrate-Nitrite	5/5/2021	0.73	0.73	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	✓
Selenium	5/5/2021	2.8	2.8	ppb	50	50	Erosion of natural deposits	✓

Disinfection Byproducts	Sample Point	Monitoring Period	Highest LRAA	Range of Sampled Result(s) (low – high)	Unit	MCL	MCLG	Typical Source
Total Haloacetic Acids	DBPDUAL-01	2021	12.8	7.0 - 20.8	ppb	60	0	By product of drinking water disinfection
-	DBPDUAL-02	2021	13.3	8 - 16.6	ppb	60	0	By product of drinking water disinfection

Disinfection Byproducts	Sample Point	Monitoring Period	Highest LRAA	Range of Sampled Result(s) (low – high)	Unit	MCL	MCLG	Typical Source
-	DBPDUAL-03	2021	13.1	9.3 - 12.1	ppb	60	0	By product of drinking water disinfection
-	DBPDUAL-04	2021	12.1	8.1 - 16.4	ppb	60	0	By product of drinking water disinfection
-	DBPDUAL-05	2021	12.8	9.9 - 15.4	ppb	60	0	By product of drinking water disinfection
-	DBPDUAL-06	2021	12.4	8.3 - 14.1	ppb	60	0	By product of drinking water disinfection
Total Trihalomethanes	DBPDUAL-01	2021	7.7	4.2 - 10.3	ppb	80	0	By product of drinking water disinfection
-	DBPDUAL-02	2021	7.6	3.8 - 11.1	ppb	80	0	By product of drinking water disinfection
-	DBPDUAL-03	2021	6.7	3.1 - 7.0	ppb	80	0	By product of drinking water disinfection
-	DBPDUAL-04	2021	8.0	4.4 - 11.4	ppb	80	0	By product of drinking water disinfection
-	DBPDUAL-05	2021	7.6	4.4 - 10.0	ppb	80	0	By product of drinking water disinfection
-	DBPDUAL-06	2021	7.7	3.9 - 11.5	ppb	80	0	By product of drinking water disinfection

Unregulated Contaminant Monitoring Rule (UCMR)	Monitoring Period	Federal Level Recommended	Average Value	Range of Sampled Results	Unit
MOLYBDENUM, TOTAL	5/11/2019	N/A	0.002	0.002	ppm
STRONTIUM	5/11/2019	N/A	0.212	0.212	ppm
VANADIUM, TOTAL	5/11/2019	N/A	0.003	0.003	ppm
Manganese	2019	N/A	0.7	ND - 0.7	ppm
TOTAL HAA5	2019	N/A	14.9	7.4 - 33.1	ppm
TOTAL HAA6 Br	2019	N/A	1.85	1.0 - 3.2	ppm
TOTAL HAA9	2019	N/A	16.8	8.5 - 34.8	ppm

Unregulated contaminant monitoring helps the EPA determine where certain contaminants occur and whether the agency should consider regulating those contaminants in the future. HAA5 includes dibromoacetic acid, dichloroacetic acid, monobromoacetic acid, monochloroacetic acid, trichloroacetic acid. HAA6Br includes bromochloroacetic acid, bromodichloroacetic acid, dibromoacetic acid, dibromochloroacetic acid, monobromoacetic acid, and tribromoacetic acid. HAA9 includes bromochloroacetic acid, bromodichloroacetic acid, chlorodibromoacetic acid, dibromoacetic acid, dichloroacetic acid, monobromoacetic acid, monochloroacetic acid, tribromoacetic acid, and trichloroacetic acid.

TOC	Collection Date	Highest Value	Range of Sampled Result(s)	Unit	TT	Typical Source
TOTAL ORGANIC CARBON	8/2/2021	3.28	1.87 - 3.28	ppm	Failure to remove required amount	Naturally present in the environment

## SPECIAL LEAD AND COPPER NOTICE

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. KC Water 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 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, 800-426-4791 or <http://water.epa.gov/drink/info/lead/index.cfm>.

You can find sample results for all contaminants from both past and present compliance monitoring on the Missouri DNR Drinking Water Watch website, <https://www.dnr.mo.gov/DWW/DNRLogin.jsp>. Use the “Public Access” link, and then enter MO1010415 in the Water System Number box.

Lead and Copper	Collection Date	90% of KC water levels were less than	Range of Sampled Result(s)	Unit	AL	Sites Over AL	Typical Source
Copper	2019	0.004	ND - 0.022	ppm	1.3	0	Corrosion of household plumbing systems
Lead*	2019	2.1	ND - 35.8	ppb	15	0	Corrosion of household plumbing systems

\*One site out of 60 exceeded the lead AL of 15 ppb

# TURBIDITY

Turbidity is a measure of cloudiness of water. We monitor turbidity because it is a good indicator of the effectiveness of our filtration system.

% of samples in compliance with standard	Months Occurred	Monitoring Violation	Highest Single Measurement (NTU)	Month Occurred	Sources	In Compliance
96	March	No	0.35	March	Soil Runoff	✓

Microbiological	Result	MCL	MCLG	Typical Source
Total Coliform Rule (TCR)	In the month of July, 0.47% of samples returned as positive	5% of monthly samples are positive	0	Naturally present in the environment

## OPTIONAL MONITORING (NOT REQUIRED BY EPA)

### Optional Constituents and Constituents having Secondary MCL (SMCL)

Secondary standards are non-enforceable guidelines for constituents that may cause cosmetic effects such as skin or tooth discoloration or aesthetic effects such as taste, odor, or color in drinking water. EPA recommends these standards but does not require water systems to comply.

Secondary Constituents	Collection Date	Your Water System Highest Sampled Result	Range of Sampled Result(s) (low - high)	Unit	SMCL
Alkalinity, Total	3/20/2021	49	21 - 49	ppm	NA
Total Hardness	2/13/2021	136	84.6 - 136	ppm	NA
Boron	4/7/2021	0.08	0.035 - 0.08	ppm	NA
Calcium	2/13/2021	73.9	22.6 - 73.9	ppm	NA
Chloride	3/1/2021	39.5	13.5 - 39.5	ppm	250
Copper	11/3/2021	3.03	1.87 - 3.03	ppb	NA
Magnesium	11/3/2021	9.55	1.84 - 9.55	ppm	NA
Orthophosphate	10/31/2021	0.59	ND - 0.59	ppm	NA
pH	6/23/2021	10.4	8.83 - 10.4	SU	8.5
Potassium	4/7/2021	7.14	5.74 - 7.14	ppm	NA
Silicon	3/3/2021	4.84	2.72 - 4.84	ppm	NA
Sodium	10/6/2021	76.3	52.9 - 76.3	ppm	NA
Strontium	8/4/2021	0.244	0.195 - 0.244	ppm	NA
Sulfate	8/20/2021	217	85.8 - 217	ppm	250
Total Dissolved Solids	8/29/2021	415	182 - 415	ppm	500

## RESELLER CONTAMINANTS

Regulated Contaminants	Collection Date	Water System	Highest Sample Test Result	Range of Sampled Result(s)	Unit	MCL	MCLG	Typical Source
Barium	5/10/2021	INDEPENDENCE PWS	0.0487	0.0487	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	5/10/2021	INDEPENDENCE PWS	0.2	0.2	ppm	4	4	Natural deposits; water additive which promotes strong teeth

Disinfection Byproducts	Monitoring Period	Water System	Highest LRAA	Range of Sampled Result(s) (low-high)	Unit	MCL	MCLG	Typical Source
(HAAS)	2021	JACKSON COUNTY PWS D 2	16	ND - 5.44	ppb	60	0	Byproduct of drinking water disinfection

Disinfection Byproducts	Monitoring Period	Water System	Highest LRAA	Range of Sampled Result(s) (low-high)	Unit	MCL	MCLG	Typical Source
(HAAS)	2021	INDEPENDENCE PWS	4	ND - 5.09	ppb	60	0	Byproduct of drinking water disinfection
TTHM	2021	INDEPENDENCE PWS	2	1.05 - 3.62	ppb	80	0	Byproduct of drinking water disinfection
TTHM	2021	JACKSON COUNTY PWS D 2	8	0.98 - 4.51	ppb	80	0	Byproduct of drinking water disinfection

Reseller Secondary Contaminants	Collection Date	Water System Name	Highest Sampled Result	Range of Sampled Result(s) (low - high)	Unit	SMCL
Alkalinity, CaCO <sub>3</sub> Stability	5/10/2021	INDEPENDENCE PWS	60.3	60.3	ppm	NA
Bromide	3/11/2019	INDEPENDENCE PWS	0.0936	0.0719 - 0.0936	ppm	0.05
Calcium	5/10/2021	INDEPENDENCE PWS	17.1	17.1	ppm	NA
Chloride	5/10/2021	INDEPENDENCE PWS	32.4	32.4	ppm	250
Hardness Carbonate	5/10/2021	INDEPENDENCE PWS	131	131	ppm	NA
Magnesium	5/10/2021	INDEPENDENCE PWS	21.4	21.4	ppm	NA
pH	5/10/2021	INDEPENDENCE PWS	9.49	9.49	SU	8.5
Potassium	5/10/2021	INDEPENDENCE PWS	6.2	6.2	ppm	NA
Sodium	5/10/2021	INDEPENDENCE PWS	48.6	48.6	ppm	NA
Sulfate	5/10/2021	INDEPENDENCE PWS	139	139	ppm	250
TDS	5/10/2021	INDEPENDENCE PWS	319	319	ppm	500

## RESELLER VIOLATIONS AND HEALTH EFFECTS INFORMATION

*During the 2021 calendar year, the water systems from which we purchase water reported no violations of drinking water regulations.*

Water system	Type	Category	Analyte	Compliance Period
--------------	------	----------	---------	-------------------

No Violations Occurred in the Calendar Year of 2021

## TERMS AND ABBREVIATIONS

Population: 508,090 (2020 U.S. Census). This is the equivalent residential population served, including non-bill paying customers.

**AL:** Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

**HAAS:** Haloacetic Acids (mono-, di- and tri-chloroacetic acid, and mono- and dibromoacetic acid) as a group.

**LRAA:** Locational Running Annual Average, or the locational average of sample analytical results for samples taken during the previous four calendar quarters.

**MCLG:** Maximum Contaminant Level Goal, or 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.

**MCL:** Maximum Contaminant Level, or 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.

**MRDL:** Maximum Residual Disinfectant Level. The maximum level of a disinfectant added for water treatment that may not be exceeded without an unacceptable possibility of adverse health effects.

**MRDLG:** Maximum Residual Disinfectant Level Goal. The level of a drinking water disinfectant below which there is no known or expected risk to health.

**N/A:** Not applicable.

**ND:** Not detectable at testing limits.

**NTU:** Nephelometric Turbidity Unit, used to measure cloudiness in drinking water.

**ppb:** Parts per billion or micrograms per liter.

**ppm:** Parts per million or milligrams per liter.

**RAA:** Running Annual Average, or the average of sample analytical results for samples taken during the previous four

calendar quarters.

**Range of Results:** Lowest and highest levels found during a testing period. If only one sample was taken, then this number equals the Highest Test Result or Highest Value.

**SU:** Standard Units for pH.

**SMCL:** Secondary Maximum Contaminant Level, or secondary standards. Secondary standards are non-enforceable drinking-water guidelines that may cause cosmetic effects such as skin or tooth discoloration; or aesthetic effects such as taste, odor, or color. EPA recommends these standards but does not require compliance.

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

**TTHM:** Total Trihalomethanes (chloroform, bromodichloromethane, dibromochloromethane, and bromoform) as a group.



4800 E. 63rd St. • Kansas City, MO 64130

CUSTOMER SUPPORT: (816) 513-1313 or 311 (Option 1) • [www.kcwater.us](http://www.kcwater.us)



[www.facebook.com/kcmowater](https://www.facebook.com/kcmowater)



@kcmowater



[www.instagram.com/kcmowater](https://www.instagram.com/kcmowater)



[www.youtube.com/kcmowater](https://www.youtube.com/kcmowater)



[www.nextdoor.com](https://www.nextdoor.com)