



Annual Water Quality Report 2024

Message from Justin Kersey, President

Dear Water Service Corporation of Kentucky Customer,
I am pleased to present your Annual Water Quality Report for 2024. Transparency, health, and safety are key priorities in our company's efforts to provide a high-quality, reliable water supply. Included in this report are details about where your water comes from, what it contains, and how it compares to regulatory standards.

We are proud to share this report which is based on water quality testing through December 2024. We continually strive to supply water that meets and/or exceeds all federal and state water quality regulations at your tap.

Treating and maintaining a safe and reliable water supply is not only hard work, but it is rewarding. Our team of local water experts are proudly dedicated to providing safe, reliable, and cost-effective service every day. This commitment includes acting with integrity, protecting the environment, and enhancing the local community.

Best regards,

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

To access your utility account anytime, anywhere, please register for our customer portal & download
My Utility Account at <https://account.myutility.us>

Source of Drinking Water

Our sources of water are two wells located in the City of Clinton. They are considered to be ground water sources which draw water from an aquifer. An aquifer is a geological formation that contains water.

Source Water Assessment (SWA)

The Safe Drinking Water Act Amendments of 1996 requires every system to prepare a source water assessment that addresses the system's susceptibility to potential sources of contamination.

For Groundwater sources, the source water assessment is contained in the Wellhead Protection Plan. Water Service Corporation of Kentucky (WCKY)-Clinton withdraws water from two wells drilled nearly 300 feet deep into the Sparta Sand formation of the Claiborne Group.

A Wellhead Protection plan has been developed to protect the community's water source. This plan has been approved by the Kentucky Division of Water. The protection area covers approximately 177 acres located completely within the jurisdictional boundaries of the City of Clinton. Potential sources of contamination are from fuel storage and the railroad. The City provides sanitary sewer to the entire community thus reducing the potential for non-point source pollution. Water quality results reveal that the drinking water supply is of very good quality only requiring aeration and chlorination for treatment. There is no indication that the aquifer is impacted at the present time by the existing land use activities. A total of six potential sources of contamination are located within the wellhead protection area.

The susceptibility analysis suggests the aquifer's vulnerability to contamination to be at a medium risk. A copy of the wellhead protection plan can be viewed at the Purchase Area Development District office. Contact Mr. Colby Wilson at 1-844-310-5556 for additional information.

We are pleased to report that our drinking water meets all federal and state requirements.

Visit us online at www.WCKY.com to view the Water Quality Reports. Also visit our website for water conservation tips and other educational material.

EPA Wants You To Know

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. **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 by-products 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.

What measures are in place to ensure water is safe to drink?

In order to ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

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 the 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 at 1-800-426-4791.

Special notice from EPA for the elderly, infants, cancer patients and people with HIV/AIDS or other immune system problems

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised 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 (1-800-426-4791).

Information Concerning Lead in Water

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. WSKY is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary

over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish to have your water tested, contact WSKY by emailing lead.lines@nexuswg.com. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.

We have been working to identify service line materials throughout the water system and prepared an inventory of all service lines in our water system. To request access to this inventory or request to review the complete lead tap sampling data, email us at: lead.lines@nexuswg.com.

Drain Disposal Information

Sewer overflows and backups can cause health hazards, damage home interiors, and threaten the environment. A common cause is sewer pipes blocked by grease, which gets into the sewer from household drains. Grease sticks to the insides of pipes. Over time, the grease can build up and block the entire pipe. Help solve the grease problem by keeping this material out of the sewer system in the first place:

- Never pour grease down sink drains or into toilets. Scrape grease into a can or trash.
- Put strainers in sink drains to catch food scraps / solids for disposal.

Prescription Medication and Hazardous Waste

Household products such as paints, cleaners, oils, and pesticides, are considered to be household hazardous waste. Prescription and over-the-counter drugs poured down the sink or flushed down the toilet can pass through the wastewater treatment system and enter rivers and lakes (or leach into the ground and seep into groundwater in a septic system). Follow the directions for proper disposal procedures. **Do not flush hazardous waste or prescription and over-the-counter drugs down the toilet or drain.** They may flow downstream to serve as sources for community drinking water supplies. Many communities offer a variety of options for conveniently and safely managing these items. For more information, visit the EPA website at: www.epa.gov/hw/household-hazardous-waste-hhw.

The Safe Drinking Water Act was passed in 1974 due to congressional concerns about organic chemical contaminants in drinking water and the inefficient manner by which states supervised and monitored drinking water supplies. Congress' aim was to assure that all citizens served by public water systems would be provided high quality water. As a result, the EPA set enforceable standards for health-related drinking water contaminants. The Act also established programs to protect underground sources of drinking water from contamination.

Understanding This Report

In order to help you understand this report, we want you to understand a few terms and abbreviations that are contained in it.

Action level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
EPA	Environmental Protection Agency.
Locational Running Annual Average (LRAA)	The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.
Maximum Contaminant Level (MCL)	The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.
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 health. MCLG's allow for a margin of safety.
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.
Maximum Residual Disinfectant Level Goal (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.
Not applicable (N/A)	Not applicable.
Not Detected (ND)	Analysis or test results indicate the constituent is not detectable at minimum reporting limit.
Parts per million (ppm) or Milligrams per liter (mg/l)	One part per million corresponds to one minute in two years or a single penny in \$10,000.
Parts per billion (ppb) or Micrograms per liter (ug/l)	One part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.
Picocuries per liter (pCi/L)	A measure of radioactivity in the water.
Nephelometric Turbidity Units (NTU)	A measure of water clarity. Turbidity in excess of 5 NTU is just noticeable to the average person.
Treatment Technique (TT)	A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.
Running Annual Average (RAA)	Calculated running annual average of all contaminant levels detected.

Help Protect our Resources

Help put a stop to the more than **1 trillion gallons of water lost annually** nationwide due to household leaks. These easy to fix leaks waste the average family the amount of water used to fill a backyard swimming pool each year. Plumbing leaks can run up your family's water bill an extra 10 percent or more, but chasing down these water and money wasting culprits is as easy as 1—2—3. Simply check, twist, and replace your way to fewer leaks and more water savings:

- ⇒ **Check** for silent leaks in the toilet with a few drops of food coloring in the tank, and check your sprinkler system for winter damage.
- ⇒ **Twist** faucet valves; tighten pipe connections; and secure your hose to the spigot. For additional savings, twist a WaterSense labeled aerator onto each bathroom faucet to save water without noticing a difference in flow. They can save a household more than 500 gallons each year—equivalent to the amount water used to shower 180 times!
- ⇒ **Replace** old plumbing fixtures and irrigation controllers that are wasting water with WaterSense labeled models that are independently certified to use 20 percent less water and perform well.

For more information visit www.epa.gov/watersense.

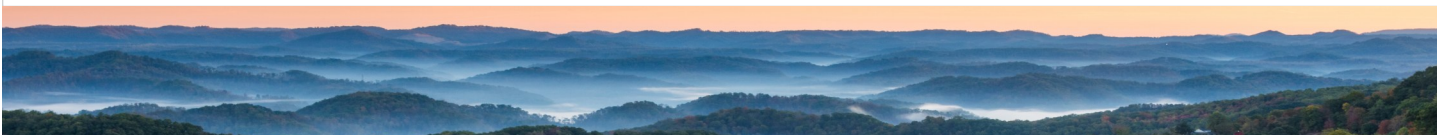
Monitoring Your Water

We routinely monitor for contaminants in your drinking water according to Federal and State laws. The tables below lists all the drinking water contaminants that were detected in the last round of sampling for each particular contaminant group. The presence of contaminants does not necessarily indicate that water poses a health risk. **Unless otherwise noted, the data presented in the table is from testing done January 1 through December 31, 2024.** The EPA or 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, maybe more than one year old.

If You Have Questions Or Want To Get Involved

Since WSKY is privately owned, there are no scheduled board meetings. This report is available to individual customers. For questions about the quality of our drinking water, or to obtain a copy of this report, contact **Mr. Colby Wilson at 1-844-310-5556**.

We ask that all our customers help us protect our water sources which are the heart of our community, our way of life and our children's future.



Water Quality Test Results								
Contaminants (units)	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Likely Source of Contamination	
Disinfectants and Disinfection By-Products								
Chlorine (ppm)	2024	1.53	0.42 - 1.53	MRDLG = 4	MRDL = 4	N	Water additive used to control microbes.	
Haloacetic Acids (HAA5) (ppb)	2024	2	1 - 2	N/A	60	N	By-product of drinking water disinfection.	
Total Trihalomethanes (TTHM) (ppb)	2024	7	1 - 7	N/A	80	N	By-product of drinking water disinfection.	
Inorganic Contaminants								
Barium (ppm)	2023	0.052	0.052 - 0.052	2	2	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	
Fluoride (ppm)	2023	0.66	0.66 – 0.66	4	4.0	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	
Nitrate [measured as Nitrogen] (ppm)	2024	2.17	2.17 – 2.17	10	10	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	
Radioactive Contaminants								
Combined Radium 226/228 (pCi/L)	2022	0.7	0.7	0	5	N	Erosion of natural deposits.	
Secondary Contaminants								
Contaminants (units)	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Likely Source of Contamination	
*Copper Free (ppm)	2024	0.009	0.009–0.009	N/A	1	N	Erosion of natural deposits, Leaching from wood preservatives	
**Fluoride (ppm)	2024	0.82	0.82–0.82	N/A	2	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories	
*The copper sample was collected at the water plant and was not collected as part of the Lead and Copper rule.								
**The fluoride sample collected was a part of routine operational checks and was not collected as part of the Inorganic sampling rule.								
Lead & Copper Contaminants - Regulated at the Customers' Tap								
Contaminant (units)	Date Sampled	MCLG	Action Level (AL)	90th Percentile	Range of Detections	# Sites Over AL	Violation	Likely Source of Contamination
Copper (ppm)	2022	1.3	1.3	0.473	0.170 - 0.830	0	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead (ppb)	2022	0	15	3	2 - 4	0	N	Corrosion of household plumbing systems; Erosion of natural deposits.
<p><u>Lead:</u> There is no safe level of lead in drinking water. Exposure to lead in drinking water can cause serious health effects in all age groups, especially pregnant people, infants (both formula-fed and breastfed), and young children. Some of the health effects to infants and children include decreases in IQ and attention span. Lead exposure can also result in new or worsened learning and behavior problems. The children of persons who are exposed to lead before or during pregnancy may be at increased risk of these harmful health effects. Adults have increased risks of heart disease, high blood pressure, kidney or nervous system problems. Contact your health care provider for more information about your risks.</p> <p><u>Copper:</u> Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.</p>								

Volatile Organic Contaminants

Contaminants (units)	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Likely Source of Contamination
***Xylenes (ppm)	2023	0.0514	0.0514	10	10	N	Discharge from petroleum factories; Discharge from chemical factories
***Ethylbenzene (ppm)	2023	0.0083	0.0083	0.7	0.7	N	Discharge from petroleum refineries.

***These contaminants were found in a distribution system storage tank.

EPA requires us to inform you of the information presented in the table above. Additionally, some of the most often requested test results of our water supply are in the table below:

Other Water Quality Information:

Water Quality Parameter	Average Result in 2023
Sodium	12.9 ppm (an 8 ounce serving is free by FDA guidelines)

Violations

In 2024, WSKY performed all required monitoring for contaminants and did not exceed any allowable levels of these contaminants. In addition, we received **no violations** from the Department of Environmental Protection and was in compliance with applicable testing and reporting requirements.

PFAS Testing

Water Service Corporation of Kentucky Inc. continues efforts to conduct statewide drinking water testing for Per- and Polyfluoroalkyl Substances (PFAS). These man-made compounds are used in the manufacturing of products resistant to water, grease or stains including firefighting foams, cleaners, cosmetics, paints, adhesives and insecticides. PFAS can migrate into the soil, water, and air and is likely present in the blood of humans and animals all over the world. The Environmental Protection Agency (EPA) has established health advisory levels for GenX, PFBS, PFOA, and PFOS, and has proposed enforceable limits. We are reviewing the proposed MCLs to evaluate the impact on our operations and on the communities we serve. **Our focus will remain, as always, on supplying our customers with safe and reliable water.**

For the latest PFAS results, visit our website at www.WSKY.com and click Water Quality Reports under Water Safety. For more information visit <https://www.epa.gov/pfas>.

Water Service Corporation of Kentucky is committed to providing safe, reliable, and cost-effective drinking water services to all of our customers.