

**City of South Shore Water Works
Water Quality Report
2024**

For previous reports include year.

Example: tapwaterinfo.com/2023/southshore

Water System ID: KY0450410

Manager: D. Greg Hall

Mailing Address: PO Box 516 South Shore, KY 41175

CCR Contact: Cheryl Robbins

Phone: 606-932-6144

Meeting Location and Time: City Hall/Third Tuesday each month at 5:00 PM

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 may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791). To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

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 may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

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 (800-426-4791).

South Shore purchases drinking water from the City of Portsmouth, OH and Garrison-Quincy Water District as our primary supply. We also purchase water from Greenup Municipal Water on an emergency basis and occasionally utilize our water treatment plant. The City of Portsmouth's public water system uses surface water drawn from the Ohio River. Surface waters are by their nature susceptible to contamination, and numerous potential contaminant sources along their banks make them more so. Potential contaminant sources, including municipal and industrial wastewater discharges, combined sewer overflows, runoff from urban, residential, mining, and agricultural areas, and transportation spills related to rail and highway crossings, commercial shipping, and recreational boating. As a result, Portsmouth is considered to have a high susceptibility to contamination. Garrison-Quincy withdraws groundwater from four wells drilled into the alluvial aquifer adjacent to the Ohio River. The susceptibility rating for Garrison is moderate due to agricultural, recreational, and light industrial activities within their protection area. Greenup Municipal withdraws surface water from the Little Sandy River near its confluence with the Ohio River. The susceptibility rating for Greenup is moderate due to transportation corridors, waste discharges and light industrial activities within their protection area. The city treats groundwater water from wells drilled into a sandstone aquifer. The susceptibility rating for South Shore is high due to PFAS contaminants in some of the wells however the well that is intermittently used is not impacted by PFAS. The completed Source Water and Wellhead Protection Plans are available for review at each water utilities respective administrative office. Contact Sam Sutherland, Public Utilities Director Water, City of Portsmouth at (740) 456-4946; Trent Underwood, Manager, Garrison-Quincy at 606-757-4898, Roger Harris, Manager, Greenup Municipal Water at 606-473-7331, and Greg Hall, Manager, South Shore at 606-932-6144.

Information About Lead:

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 local water system is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact your local water system. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

We are required to annually provide information about the health risks from lead in drinking water to schools and child care facilities. All elementary schools, secondary schools, and child care facilities are eligible to be sampled for lead by our water system. Contact our office for scheduling or to learn results of previous sampling.

Service Line Inventory Information:

To address lead in drinking water, EPA requires that all community water systems develop and maintain an inventory of service line materials. We have completed a service line inventory (SLI) and it is available for review at our office.

Lead Sample Results Availability Information:

We are required to periodically sample water from customer taps to determine lead and copper levels. EPA sets the lead action level at 0.015 mg/L (15 ppb). For a water system to be in compliance, at least 90% of tap water samples must have lead levels below this limit. This report contains the 90th percentile and range of our most recent sampling. The individual results for each location sampled can be reviewed at our office.

Some or all of these definitions may be found in this report:

Maximum Contaminant Level (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.

Maximum Contaminant Level Goal (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 (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.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

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, (µg/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variance & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

We are only required to test for some contaminants periodically, so the results listed in this report may not be from the previous year. Only detected contaminants are included in this report. For a list of all contaminants we test for please contact us. Copies of this report are available upon request by contacting our office.

Regulated Contaminant Test Results (P) City of Portsmouth (OH7300111) (Q) Garrison Quincy Water District (KY0680153) (G) Greenup Municipal Water (KY0450169) (S) City of South Shore (KY0450410)									
Contaminant [code] (units)	MCL	MCLG	Source	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination	
Radioactive Contaminants									
Combined radium (pCi/L)	5	0	G=	1.31	1.31 to 1.31	May-20	No	Erosion of natural deposits	
Uranium (µg/L)	30	0	Q=	2.07	2.07 to 2.07	2019	No	Erosion of natural deposits	
Inorganic Contaminants									
Barium [1010] (ppm)	2	2	P= G= S=	0.039 0.029 0.044	0.039 to 0.039 0.029 to 0.029 0.044 to 0.044	2024 Apr-24 Jul-23	No No No	Drilling wastes; metal refineries; erosion of natural deposits	
Fluoride [1025] (ppm)	4	4	P= Q= G= S=	1.18 0.82 1 0.97	0.85 to 1.18 0.67 to 0.82 1 to 1 0.97 to 0.97	2024 2024 Apr-24 Jul-24	No No No No	Water additive which promotes strong teeth	
Nitrate [1040] (ppm)	10	10	P= Q= G= S=	1.03 2 0.272 0.0445	0.35 to 1.03 1.7 to 1.7 0.272 to 0.272 0.0445 to 0.0445	2024 2024 2024 2024	No No No No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits	
Selenium [1045] (ppb)	50	50	Q=	1.1	1.1 to 1.1	2024	No	Discharge from petroleum and metal refineries or mines; erosion of natural deposits	
Disinfectants/Disinfection Byproducts and Precursors									
Total Organic Carbon (ppm) (report level=lowest avg. range of monthly ratios)	TT*	N/A	P= G=	1.35 1.44	1 to 2.25 1 to 1.82	2024 2024	No No	Naturally present in environment.	
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.									
Chlorine (ppm)	MRDL = 4	MRDLG = 4	S=	1.23 (highest average)	0.88 to 1.57	2024	No	Water additive used to control microbes.	
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	S=	29 (average)	16 to 38 (range of individual sites)	2024	No	Byproduct of drinking water disinfection	
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	S=	70 (average)	45 to 87 (range of individual sites)	2024	No	Byproduct of drinking water disinfection.	
Household Plumbing Contaminants									
Copper (ppm) Round 1 sites exceeding action level 0	AL = 1.3	1.3	S=	0.122 (90 th percentile)	0.122 to 0.283	Jul-24	No	Corrosion of household plumbing systems	
Lead (ppb) Round 1 sites exceeding action level 0	AL = 15	0	S=	2 (90 th percentile)	0 to 2	Jul-24	No	Corrosion of household plumbing systems	
Other Constituents									
Turbidity (NTU) TT * Representative samples Turbidity is a measure of the clarity of the water and not a contaminant.	Allowable Levels No more than 1 NTU* Less than 0.3 NTU in 95% monthly samples	Source P= G=	Highest Single Measurement 0.33 0.069	Lowest Monthly % 99.99 100	Violation N No	Likely Source of Turbidity Soil runoff			

Unregulated Contaminants (UCMR 5)	average	range (ppb)	date
perfluoropentanoic acid (PFPeA)	S= 0.0086	0.0086 to 0.0086	Sep-24

Your drinking water has been sampled for a series of unregulated contaminants. Unregulated contaminants are those that EPA has not established drinking water standards. There are no MCLs and therefore no violations if found. The purpose of monitoring for these contaminants is to help EPA determine where the contaminants occur and whether they should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours.