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

Macament contaminant Level (MCL) - the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLSs as feasible using the best available treatment rechnology.

Missimum Centensharat Lavel Goad (MCLG) - the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a mergin of safety. Manimum Residual Distribution Lavel (MRDL) - the highest level of Manimum Residual Distribution through the highest level of a distribution that slowed in drinking water. There is convincing evidence that addition of a distribution to recessary for control of microbial contaminants.

Maurinum Residual Distributant Level Goal (MRDLG) - the level of a dribting water distributant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the user of distributants to control microbial contaminants.

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

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 age billion (stabl) - or micrograms per titer (self). One near

Parts per billion (pub) - or micrograms per liter; (µg/1). One pert per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parks per trillion (pigt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in 510,000,000,000, Parts per quandfillion (pigt) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in 310,000,000,000,000.

Ploncuries per fiber (pC/A) - a measure of the radioactivity in water Millinents per year (mmm/yr) - measure of radiation absorbed by the body.

Million Filters per Liter (MPL) - a measure of the presence of asblectos 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

Variances & Examptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions. Action Lawsi (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

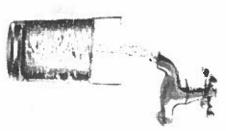
Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

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

Southeastern Water

Water Quality Report 2022

To request a paper copy call (606) 678-5501



Water System ID: KY 1000311
Manager: Morris Vaughn
606-678-5501
CCR Contact: Morris Vaughn
606-678-5501
sewawater@yahoo.com

Website: southeasternwater.org

Mailing address:
147 East Someract Church Road
Someract, KY 42503

Meeting location and time:
147 East Somerset Church Road
2nd Thursday each month at 5:30 PM

This report is designed to inform the public about the quality of water and services provided on a daily besis. Our commitment is to provide a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.

Superfund site, a closed landfill, roadways, bridges/culverts, and railroads. Agricultural activities be found residential, commercial and industrial areas, a concern. Near the source water withdrawal location can of Lake Cumberland to contamination indicates that this Southeastern Water Association purchases water from Development District Office. Water Service and also at the Lake Cumberland Area withdrawal site is low. The complete Source Water sources to adversely impact the water quality at the water quality. The overall potential of these contaminant and urban development also have a potential to affect susceptibily is low. However, there are several areas of from Lake Cumberland. An analysis of the susceptibility Sometiset. Sometiset Water Service treats auriace water Assessment Plan is available for review at Somerset

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).

processes and petroleum production, or from gas Organic chemical contaminants, including synthetic and runoff, wastewater discharges, oil and gas production, salts and metals, (naturally occurring or from stormwater operations, or wildlife). Inorganic contaminants, such as and bacteria, (sowage plants, septic systems, livestock water include: Microbial contaminants, such as viruses resulting from the presence of animals or from human bottled water) include rivers, lakes, streams, ponds, stations, stormwater runoff, or acptic systems) volutile organic chemicals, (by-products of industrial (stormwater runoff, agriculture or residential uses). mming, or farming). Pesticides and herbicides, activity. Contaminants that may be present in source radioactive material, and may pick up substances naturally occurring minerals end, in some cases, surface of the land or through the ground, it dissolves reservoirs, springs, and wells. As water travels over the The sources of drinking water (both tap water and

Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to cusure 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 leasen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

nformation About Load:

drinking water, testing methods, and steps you can take you are concerned about lead in your water, you may Water Hotline or at http://www.epa_gov/safewater/lead to minimize exposure is available from the Safe Drinkin minutes before using water for drinking or cooking. If exposure by flushing your tap for 30 seconds to 2 plumbing components. When your water has been sitting but cannot control the variety of materials used in responsible for providing high quality drinking water, and home plumbing. Your local public water system is young children. Lead in drinking water is primarily from wish to have your water tested. Information on lead in for several hours, you can minimize the potential for lear materials and components associated with service lines health problems, capecially for pregnant women and If present, elevated levels of lead can cause serious



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 lavel for a lifetime to have a one-in-wallies change of having the described health effect.

The data presented in this report are from the most recent testing does in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EFA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these conteminants are not expected to vary againstantly from year to year. Some of the data in his table, though representative, may be more than one year old Copiess of this report are available upon request by contacting our office during business hours.

| Regulated Contuminant Test Results - Somerset Water Service | Test Res | indts - Some | Jet Water | Service | | | | |
|---|-----------|------------------------|----------------|------------|------------------|-----------|--------------|---|
| Contaminant | | | Report | 7 | Rauge | Date of | | Likely Source of |
| [code] (units) | MCL | MCLG | Lewel | of Do | of Detection | Sanpie | Vieledon | Vieletien Contemination |
| Bectum [1010] (ppm) | n | 2 | 0.02 | 0.02 to | 0.02 | 2022 | ş | Drilling wastes; metal refineries; erosion of natural |
| Fhunrida | | | | | | | | tertodos |
| [1025] (ppm) | • | | 0.83 | 0.83 to | 0.83 | 2022 | 8 | Water additive which promotes arong tooth |
| Nitrate | | | | | | | | Fortilizer ranoff; leaching |
| [1040] (ppm) | 10 | 10 | 0.33 | 0.33 10 | 0 0.33 | 2022 | ş | from soptic tanks, sewage; erosion of natural deposits |
| Disinfectants/Disinfection Byproducts and Procursors | іол Вург | oducts and P | recursors | | | | | |
| Total Organic Carbon (ppm) | ~ | | 1.11 | | | | | |
| (mossared as pgm, but | TT. | N/A | (lowest | | to 1.59 | 2022 | ₹. | Naturally present in |
| reported as a ratio) | | | EVCTAGE) | (mont) | (monthly ratios) | | | et a to de ment. |
| *Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance | C remove | l achieved to ti | be % TOC r | emoval req | pirod Annual a | метар ши | be 1.00 or m | reater for compliance. |
| Other Constituents | | | | | | | | |
| Turbidity (NTU) TT | IIV. | Aliemable | Bighest Single | Single | Lower | Violation | | |
| * Representative samples | _ | Levels | Menserement |) deta | Monthly % | | Likely | Likely Source of Turbidity |
| Turbidity is a mousen of | No more | No more than ! NTU* | | | | | | |
| the clarity of the water and | Loss than | Loss than 0.3 NTU in | | 0.035 | <u>.</u> | ₹ | | Sail runoff |
| not a conteminant. | 95% of m | 95% of monthly samples | | | | | | |
| | | | 1 | | | _ | | |

| Average 0.90 on the best quality of t | Avarage Range of Detectles 0.90 0.693 to 1.12 on the beath of consumers. They quality of the water. | Secondary conteminents do not have a direct impact on the beath of consumers. They are being included to provide additional information about the quality of the water. | Finoride (added for dental health) | |
|--|---|---|------------------------------------|--------|
| | Range 0.693 the of control water. | on the bes | 0.90 | Awrage |
| of Det | | They | 1.12 | жень |
| of Detection 10 1.12 samers. They | 1.12 They | or bada | _ | _ |

| Secondary | Maxigum Allewable | Report | Range | | Date of |
|------------------------|-------------------------|--------|-------------|-------|---------|
| Contaminant | Lawel | 1070 | of Detectle | XI on | Sample |
| Abaninus | 0.05 to 0.2 mg/l | 0.13 | 0.13 to | 0.13 | 2022 |
| Chloride | 250 mg/l | 9.1 | 9.1 to | 9.1 | 2022 |
| Corrosivity | Noncerronive | -1.75 | VN | | 2022 |
| Fluorido | 2.0 mg/l | 0.84 | 0.84 to | 0.84 | 2022 |
| Odor | 3 threshold odor number | 2 | 2 10 | 2 | 2022 |
| рH | 6.5 to 8.5 | 7.1 | 7.1 to | 7.1 | 2022 |
| Sallinto | 250 ացմ | 45 | 45 to | 45 | 2022 |
| Total Dissolved Solids | 500 mg/s | 112 | 112 10 | 112 | 2022 |

| Regulated Contaminant Test Results | Test Res | ults | Southeaster | Southeastern Water Association | | | |
|------------------------------------|------------|--------|-------------------|--------------------------------|---------|-----------|---|
| Contaminant | | | Raport | Range | Date of | | Likely Source of |
| (code) (unita) | MCL | MCLG | Level | of Detection | Sample | Violation | Violation Contamination |
| Chlorine | MRDL | MIRDLG | 1.33 | | | | |
| (ppm) | A | 1 4 | (bighost | 1.02 to 2.21 | 2022 | <u>z</u> | Water additive used to control |
| | 1 | 3 | average) | | | | Haciouch |
| HAA (ppb) (Stage 2) | i | | 37 | | | | |
| [Haloacetic acids] | 60 | N.A. | (high site | 17 10 56 | 2022 | 8 | Syproduct of drunking water |
| | | | average) | (range of individual sites) | | | Total Control of the |
| TTHM (ppb) (Stage 2) | | | ယ 00 | | | | |
| [total tribalomethanes] | 80 | N/N | (high site | 15 10 73 | 2022 | 8 | byproduct of demands water |
| | | | амстадо) | (range of individual sites) | | | American a debit of Maria |
| Household Plumbing Contaminants | e tacrácas | | | | | | |
| Copper [1022] (ppm) Roun | AL= | | 0.127 | | | | |
| sites exceeding action level | E. | 1.3 | (90 th | 0.0059 to 0.152 | Jun-20 | 8 | Corresion of household |
| 0 | | | percentile) | | | | homeony & all or define |

