# Annual Drinking Water Quality Report

**FAIRLEE**

Public Water System ID: MD0140003

We are pleased to present to you the Annual Water Quality Report (Consumer Confidence Report) for the year, for the period of January 1 to December 31, 2025. This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water. (Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien).

For more information regarding this report, contact:

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## Sources of Drinking Water

FAIRLEE is Ground water.

Our water source(s) and source water assessment information are listed below:

| Source Name | | Type of Water | Report Status | Location |
|---|---|---|---|---|
| FAIRLEE WELL 2 KE810726 | KE810726 | Ground water | Y | Near 0 mi Fairlee Appox 1000 ft E of MD Rt 298 |
| FAIRLEE WELL 3 KE880409 | KE880409 | Ground water | Y | East of Fairlee Approx 600 ft N of Fairlee Rd |

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 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.

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 EPAs Safe Drinking Water Hotline at (800) 426-4791. Contaminants that may be present in source water include:

Microbial Contaminants - such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
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.
Pesticides and Herbicides - which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
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.
Radioactive Contaminants – which can be naturally-occurring or be the result of oil and gas production and mining activities.

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

Some people may be more vulnerable to contaminants in drinking water than the general population. Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

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).

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.

An initial Service Line Inventory was submitted to the Maryland Department of the Environment on 10/10/2024. As a result, the Service Line Inventory requirement was fulfilled. The report is available http://www.epa.gov/safewater/lead.

Source water assessment has been performed by the Maryland Department of the Environment and is accessible on their website at:
https://mde.maryland.gov/programs/Water/water_supply/Source_Water_Assessment_Program/Pages/by_county.aspx

In the tables below, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms, we've provided the following definitions:

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.
Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
Maximum Contaminant Level or 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 or 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 goal or 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.
Maximum residual disinfectant level or 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.
Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.
Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Avg: Average - Regulatory compliance with some MCLs are based on running annual average of monthly samples.
ND: Non-detect – Constituent was not present or was present at levels below the detection limit of the testing method.
LRAA: Locational Running Annual Average
mrem: millirems per year (a measure of radiation absorbed by the body)
ppt: One part per trillion is equivalent to one nanogram (ng/L) per liter. A single drop of food coloring in 18 million gallons of water.
ppb: micrograms per liter (ug/L) or parts per billion - or one ounce in 7,350,000 gallons of water.
ppm: milligrams per liter (mg/L) or parts per million - or one ounce in 7,350 gallons of water
picocuries per liter (pCi/L): picocuries per liter is a measure of the radioactivity in water.
na: not applicable.

Our water system tested a minimum of 1 sample(s) per month in accordance with the Total Coliform Rule for microbiological contaminants. With the microbiological samples collected, the water system collects disinfectant residuals to ensure control of microbial growth.

| Disinfectant | Date | Highest RAA | Unit | Range | MRDL | MRDLG | Typical Source |
|---|---|---|---|---|---|---|---|
| CHLORINE | 2025 | 0.6 | ppm | 0.1 - 0.9 | 4 | 4 | Water additive used to control microbes |

## Regulated Contaminants

In the tables below, we have shown the regulated contaminants that were detected. Chemical Sampling of our drinking water may not be required on an annual basis; therefore, information provided in this table refers back to the latest year of chemical sampling results.

| Lead and Copper | Period | 90TH Percentile: 90% of your water utility levels were less than | Range of Sampled Results (low - high) | Unit | AL | Sites Over AL | Typical Source |
|---|---|---|---|---|---|---|---|
| COPPER, FREE | 2021 - 2023 | 0.03 | <.005 | ppm | 1.3 | 0 | Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives |
| LEAD | 2021 - 2023 | ND | <.005 | ppb | 15 | 0 | Corrosion of household plumbing systems; Erosion of natural deposits |

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. FAIRLEE 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 FAIRLEE at 443-282-4167 or cyiannakis@kentgov.org**.** 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.

| Disinfection Byproducts | Sample Point | Period | Highest LRAA | Range | Unit | MCL | MCLG | Typical Source |
|---|---|---|---|---|---|---|---|---|
| TOTAL HALOACETIC ACIDS (HAA5) | RESIDENCE CAULKSFIELD RD | 2025 | 9.6 | 9.6 - 9.6 | ppb | 60 | 0 | By-product of drinking water disinfection |
| TTHM | RESIDENCE CAULKSFIELD RD | 2025 | 29.1 | 29.1 - 29.1 | ppb | 80 | 0 | By-product of drinking water chlorination |

| Regulated Contaminants | Collection Date | Highest Value | Range | Unit | MCL | MCLG | Typical Source |
|---|---|---|---|---|---|---|---|
| BARIUM | 1/2/2025 | 0.0952 | 0.0952 | ppm | 2 | 2 | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |
| FLUORIDE | 1/4/2024 | 0.2 | 0.2 | ppm | 4 | 4 | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |

| Radiological Contaminants | Collection Date | Highest Value | Range | Unit | MCL | MCLG | Typical Source |
|---|---|---|---|---|---|---|---|
| COMBINED RADIUM (-226 & -228) | 2/25/2020 | 1.3 | 1.3 | pCi/L | 5 | 0 | Erosion of natural deposits |
| GROSS ALPHA, EXCL. RADON & U | 2/25/2020 | 4.6 | 4.6 | pCi/L | 15 | 0 | Erosion of natural deposits |
| GROSS BETA PARTICLE ACTIVITY | 2/25/2020 | 9.6 | 9.6 | pCi/L | 50 | 0 | Decay of natural and man-made deposits. |
| RADIUM-226 | 2/25/2020 | 0.6 | 0.6 | PCI/L | 5 | 0 | Erosion of natural deposits |
| RADIUM-228 | 2/25/2020 | 0.7 | 0.7 | PCI/L | 5 | 0 | Erosion of natural deposits |

## Violations

During the period covered by this report we had the below noted violations.

| Violation Period | Analyte | Violation Type | Violation Explanation |
|---|---|---|---|
| 7/2/2025 - 11/7/2025 | LEAD AND COPPER RULE REVISIONS | NOTIFICATION, KNOWN OR POTENTIAL LSL | |

There are no additional required health effects notices.

There are no additional required health effects violation notices.