



## 2024 Annual Drinking Water Quality Report

**Bay Country Estates Public Water System ID: 0070207**

Bay Country Estates MHP is pleased to provide this Water Quality Report in compliance with the Consumer Confidence Reporting requirement mandated by the Safe Drinking Water Act (SDWA). The purpose of this report for the calendar year 2024 is to provide all system customers with necessary information regarding the quality of their drinking water.

*Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda. (This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.)*

### **WATER SYSTEM INFORMATION:**

This report confirms that our drinking water meets federal and state requirements. The following report is provided in compliance with federal regulations and will be issued annually. This report outlines the quality of our finished drinking water and explains what that quality signifies. If you have any questions about this report or your water utility, please contact Linda Foots, Property Manager, at (410) 287-2711. We want our valued customers to stay informed about their water utility.

### **WHERE DOES YOUR WATER COME FROM- SOURCE OF WATER?**

Your tap water comes from wells, but other sources of drinking water include rivers, lakes, and reservoirs. As water moves across the land or underground, it can pick up natural minerals and sometimes, pollutants. To ensure that tap water is safe to drink, the EPA prescribes regulations that limit the number of specific contaminants in drinking water provided by public water systems. However, the presence of some pollutants does not necessarily indicate a health risk. For more information about contaminants and potential health effects, please call the Environmental Protection Agency's Safe Drinking Water Hotline at 800-426-4791.

Bay Country Estates is committed to ensuring that the 276 residents have continuous access to safe, high-quality drinking water. Therefore, Bay Country Estates draws well from a non-marine Cretaceous aquifer, located approximately 200 feet below the surface. These groundwater sources naturally filter through soil and rocks, helping to reduce potential contaminants before treatment. As water travels over land or underground, it can pick up substances or contaminants, including microbes, inorganic and organic chemicals, and radioactive materials. The 200 feet of earth between surface sources and this aquifer helps purify the water before it reaches the aquifer, making it easier for us to treat before pumping it into your water distribution system. An initial **Service Line Inventory** was submitted to the

Maryland Department of the Environment on **December 3, 2024**. As a result, Bay Country Estates MHP fulfilled the requirements of the Lead and Copper Rule Revisions. The inventory report is available upon request. The **Maryland Department of the Environment** has also performed a **Source Water Assessment** for Bay Country Estates. This assessment outlines potential sources of contamination and protective measures for our well water. It is publicly accessible at: [https://mde.maryland.gov/programs/Water/water\\_supply/Source\\_Water\\_Assessment\\_Program/Pages/by\\_county.aspx](https://mde.maryland.gov/programs/Water/water_supply/Source_Water_Assessment_Program/Pages/by_county.aspx)

## **MONITORING YOUR WATER:**

We routinely monitor your drinking water for contaminants under federal and state laws. The following tables show the results of our monitoring for the period of **January 1 to December 31, 2024**. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently.

## **DEFINITIONS AND ABBREVIATIONS:**

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

**Disinfectants and Disinfection Byproduct Rules (DDBPs)** are compounds that form in water when disinfectants, such as chlorine, react with naturally occurring organic matter and other materials present in the source water. Exposure to high levels of some DBPs over time may pose health risks. Common examples include Trihalomethanes (TTHM) and Haloacetic acids (HAA5).

**Entry Point Disinfectant** - refers to the level of disinfectant remaining in the water when it enters the distribution system of a water utility. This residual is a measure of the effectiveness of disinfection, ensuring that the water remains safe for consumption. The minimum acceptable level is typically 0.2 mg/L, as defined by regulations like the EPA's Surface Water Treatment Rule (SWTR).

**Lead and Copper Rule (LCR)** - a federal regulation implemented by the Environmental Protection Agency (EPA) to protect public health by minimizing the levels of lead and copper in drinking water. The LCR in Maryland outlines how public water systems should manage and address potential lead and copper contamination to ensure the safety of drinking water for residents.

**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 (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)** – a 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 the addition of a disinfectant is necessary for controlling microbial contaminants.

**Microbes (plural for microbe)** - microscopic living organisms, such as bacteria, viruses, fungi, and algae, found in various aquatic environments.

**Minimum Residual Disinfectant Level (MinRDL)** – the minimum level of residual disinfectant required at the entry point to the distribution system.

**Per-Polyfluoralkyl Substances (PFAS)** – a group of artificial chemicals used in various products to make them resistant to grease, oil, water, and heat. They are often referred to as "forever chemicals" because they do not break down easily in the environment.

**ppb** = parts per billion, or micrograms per liter ( $\mu\text{g/L}$ )

**ppm** = parts per million, or milligrams per liter ( $\text{mg/L}$ )

**Avg: Average** - Regulatory compliance with some MCLs is based on the running annual average of monthly samples.

**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 ( $\text{ng/L}$ ) per liter. A single drop of food coloring in 18 million gallons of water.

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

**na:** not applicable.

**Nd:** not detectable

**The Revised Total Coliform Rule (RTCR)**, adopted by the Maryland Department of the Environment (MDE), is the current form of this regulation that public water systems in Maryland must comply with. The RTCR aims to enhance public health protection by reducing potential pathways for fecal contamination to enter the distribution system.

**Synthetic Organic Chemicals (SOC)** – manufactured organic compounds that can enter the water supply. They are often used in agricultural practices, industrial processes, and as additives in various products.

**Total Coliform Rule (TCR)**- a regulation for drinking water that ensures the safety of public water systems.

**DETECTED CONTAMINATION TABLES:**

**2024 Chemical Contaminants – Regulated Contaminants**

Contaminants	Collected Date	Highest Value	Range	Units	MCL	MCLG	Violation Y/N	Typical Source
Chromium	12/26/2022	1	0-1	ppb	100	100	N	Discharge from steel and pulp mills; Erosion of natural deposits
Ethylene Dibromide	8/11/2021	10	0-10	ppt	50	0	N	Discharge from petroleum refineries
Nickel	12/26/2022	0.02	0.002-0.021	MG/L	0.1	0.1	N	Erosion of nickel-bearing rocks and industrial sources.

**2024 Lead (1030)/Copper (1022):**

CONTAMINANT Lead and Copper	Year Sample Collected	90 <sup>th</sup> Percentile Value	Range of Sample Results (low-high)	# of Sites Above of Total Sites	Action Level (AL)	MCLG MRDL or AL	Units	Violations Y/N	Source of Contamination
Copper, Free	2023-2024	0.214	<.005-1	0 of 5	1.3	1.3 (AL)	ppm	N	Corrosion of household plumbing system; Erosion of natural deposits; Leaching from wood preservatives
Lead	2023-2024	4	<.005-5	0 of 5	15	0 (AL)	ppb	N	Corrosion of household plumbing system; Erosion of natural deposits

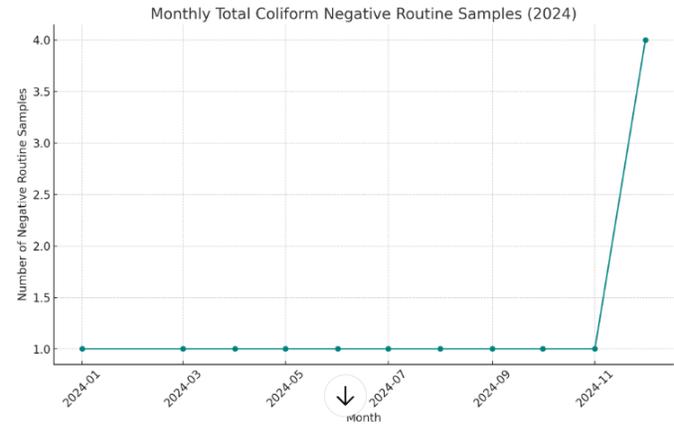
\*Copper and Lead have a sampling frequency of every 3 years. The following collection period is from June 1, 2026, to September 30, 2026, and the required samples are 5.

**2024 Microbial Information:**

**Total Coliform Bacteria Presence & E. Coliform Presence** – No positive Coliform Bacteria and E. Coliform were present.

**Total Coliform Bacteria & E. Coliform Chart** **MD0070207** **BAY COUNTRY ESTATES MOBILE HOME PARK**

Monitoring Period		Number of Negative Routines	Date Summary Received	Lab ID	Facility ID
Begin Date	End Date				
12/1/2024	12/31/2024	4	1/10/2025	MD-347	DS01
11/1/2024	11/30/2024	1	12/10/2024	MD-347	DS01
10/1/2024	10/31/2024	1	11/5/2024	MD-347	DS01
9/1/2024	9/30/2024	1	10/10/2024	MD-347	DS01
8/1/2024	8/31/2024	1	9/9/2024	MD-347	DS01
7/1/2024	7/31/2024	1	8/8/2024	MD-347	DS01
6/1/2024	6/30/2024	1	7/3/2024	MD-347	DS01
5/1/2024	5/31/2024	1	6/7/2024	MD-347	DS01
4/1/2024	4/30/2024	1	5/10/2024	MD-347	DS01
3/1/2024	3/31/2024	1	4/16/2024	MD-347	DS01
1/1/2024	1/31/2024	1	2/9/2024	MD-347	DS01



**2024 Violation Summary:**

**Violation Name:** Lead Service Line Inventory- Initial

**Violation Period:** 10/2024-12/2024

**Violation Type:**

Lead Service Line (LSL) Inventory – Initial (Public Notification Received – Not Requested)

**Explanation:**

Bay Country Estates MHP did not submit the required initial Lead Service Line inventory by the state deadline, as mandated under the revised Lead and Copper Rule. While a public notice was issued, the inventory itself was not submitted on time, resulting in a violation.

**Health Effects Language (if applicable):**

This was an administrative violation. There was no risk to public health, and the quality of your drinking water was not affected.

**Resolution:**

The inventory has since been submitted, and Bay Country Estates is now in compliance. We remain committed to providing safe, reliable water and full transparency in reporting.

Violation Begin	Violation End	Violation Name	Analyte Name	Public Notice Received	Compliance Status
10/17/24	12/3/2024	LSL INVENTORY-INITIAL	LEAD AND COPPER RULE REVISIONS	Not Requested	RTC
10/17/24	12/3/2024	LSL INVENTORY-INITIAL	LEAD AND COPPER RULE REVISIONS	Not Requested	RTC



**Contaminants that may be present in source water include:**

**Inorganic contaminants**, such as salt and metals, can occur naturally or result from urban stormwater runoff, industrial or domestic wastewater, oil and gas activities, mining, or agricultural practices. **Organic chemicals**, including synthetic and volatile types, originate from various sources, including industrial processes, petroleum production, gas stations, urban runoff, and septic systems. **Radioactive contaminants** can also be naturally occurring or derived from oil and gas production and mining. **Pesticides and herbicides** originate from agricultural sources, urban runoff, and residential use. Microbial contaminants, such as viruses and bacteria, may arise from sewage plants, septic systems, livestock operations, and wildlife.

**SPECIAL CONSIDERATION REGARDING CHILDREN, PREGNANT WOMEN, NURSING MOTHERS, AND OTHERS:**

Children are more susceptible to drinking water contaminants than adults due to their lower body weight. Therefore, reproductive or developmental effects are prioritized for calculating drinking water standards if they occur at lower levels than other health concerns. If there is insufficient toxicity information for a chemical, such as a lack of data on reproductive or developmental effects, an additional uncertainty factor may be added to the calculation, making the standard stricter to address these uncertainties. For lead and nitrate, health standards focus on effects on infants and children.

**ADDITIONAL HEALTH INFORMATION:**

**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. **Bay Country Estates MHP** is responsible for providing high-quality drinking water and removing lead pipes; however, it cannot control the variety of materials used in plumbing components within 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 **Bay Country Estates MHP at (410) 287-2711**. 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>.

**Cryptosporidium** is a microscopic parasite that can contaminate water and cause illness. It is a one-celled parasite that resides in the intestines of both animals and humans. When infected individuals or animals release the parasite in their feces, it can contaminate water supplies, particularly surface water sources like rivers and lakes. Bay Country Estates MHP uses groundwater, and Cryptosporidium has not been detected in our water system.

**Arsenic** is a naturally occurring element that can contaminate water and is a known carcinogen.

**Nitrate** is a compound found in fertilizers and other sources, and it can also contaminate water, posing a health risk, particularly to infants.

#### **WATER INFORMATION SOURCES:**

Maryland Department of the Environment Drinking Water: <https://health.maryland.gov/phpa/oeahfp/chs/pages/drinkingwater>

Water Quality Association: <https://wqa.org>

Maryland Clean Water Act: <https://cleanwater.org/states/maryland>

Maryland Department of the Environment (MDE)- Water Supply Program - [https://mde.maryland.gov/programs/water/water\\_supply](https://mde.maryland.gov/programs/water/water_supply)

Maryland Public Drinking Water Watch - <https://waterwatch.md.gov>

EPA Safe Drinking Water Hotline – <https://www.epa.gov/sdwa>

National Library of Medicine / National Institute of Health – <https://www.nlm.gov>

**Disclaimer:** Unless otherwise indicated, the data presented in this report are from the most recent testing done by applicable regulations. The State allows monitoring for some contaminants less than once per year because the concentrations of these contaminants do not change frequently.