

Villas at Cattail Creek

2021 Drinking Water

Quality Report

PWSID: 013-0005



Important Information About Your Drinking Water

We're pleased to present to you the Annual Water Quality Report for 2021. This report is designed to inform you about the water quality and services we deliver to you every day. Maryland Environmental Service (MES), an Agency of the State of Maryland, operates the water treatment facility and prepared this report on behalf of Villas at Cattail Creek.

The Environmental Protection Agency (EPA) regulates Public Water Systems and the contaminants found in water through the implementation of the Safe Drinking Water Act (SDWA). The SDWA sets regulations and guidelines for how public water systems operate and identifies several hundred drinking water contaminants, establishes monitoring frequencies and limitations. The Maryland Department of the Environment (MDE) is responsible for the enforcement of the SDWA and routinely complete Sanitary Surveys as part of their ongoing inspection and monitoring program. MES provides safe dependable operations of the water system and is dedicated to consistently providing high quality drinking water that meets or exceeds the SDWA standards.

If you have any questions about this report or have questions concerning your water utility, please contact **Jay Janney at 410-729-8350, e-mail jjanney@menv.com**.

For More Information:

For the opportunity to ask more questions or participate in decisions that may affect your drinking water quality, please contact **Jamie K. Blumberg** the resident manager with Villas at Cattail Creek at 410-808-6769

The Villas at Cattail Creek water works consists of two wells in the Sykesville formation. After being pumped out of the wells, the water is aerated, disinfected with sodium hypochlorite to protect against microbial contaminants, and the pH is neutralized with sodium hydroxide. The Maryland Department of the Environment has performed an assessment of the source water. A copy of the results is available. Call **Maryland Environmental Service at 410-729-8350**

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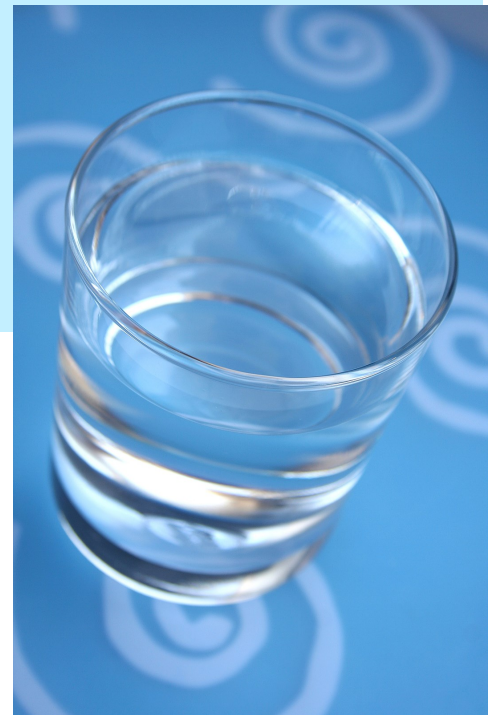
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Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or 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)**.

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Definitions:

- ◆ **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 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.
- ◆ **Action Level** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow
- ◆ **Treatment Technique (TT)** - A required process intended to reduce the level of a contaminant in drinking water
- ◆ **Turbidity** - Relates to a condition where suspended particles are present in the water. Turbidity measurements are a way to describe the level of “cloudiness” of the water.
- ◆ **pCi/l** - Picocuries per liter. A measure of radiation.
- ◆ **ppb** - parts per billion or micrograms per liter
- ◆ **ppm** - parts per million or milligrams per liter
- ◆ **ppt** - parts per trillion or nanograms per liter



Special points of interest:

The water at Villas at Cattail Creek is tested for over 120 different compounds. The Villas at Cattail Creek Drinking Water met all of the State and Federal requirements.

Drinking Water, including bottled water, may reasonably be expected to contain at least small amounts of some compounds. The presence of these compounds does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling:

Environmental Protection Agency's (EPA's) Safe Drinking Water Act Hotline (1-800-426-4791)

NITRATE:

Nitrate (measured as Nitrogen) in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask for advice from your health care provider.

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Contaminant	Highest Level Allowed (EPA's MCL)	Highest Level Detected	Ideal Goal (EPA's MCLG)
Regulated at the Treatment Plant - Southwest of Glenwood - Plant I.D. 01			
Gross Beta (2018 Testing)	50 pCi/l*	4.8 pCi/l**	0.0 pCi/l
Typical Source of Contamination: Erosion of natural deposits			
*EPA considers 50 pCi/L to be the level of concern for beta particles			
** Because the beta particle results were below 50 pCi/l, no testing for individual beta particle constituents was required			
Gross Alpha (2018 Testing)	15 pCi/l	2.4 pCi/l	15 pCi/l
Please see page 4 of CCR for more details on Gross Alpha Emitters			
Nitrate	10 ppm	4.8 ppm	10 ppm
Typical Source of Contamination: Runoff from fertilizer use and erosion of natural deposits			
Barium (2020 Testing)	2000 ppb	34 ppb	2000 ppb
Typical Source of Contamination: Erosion of natural deposits			
Regulated in the Distribution System			
Chlorine	4 ppm	1.06 ppm*	4 ppm
Water additive used to control microbes		Range (0.84 - 1.30 ppm)	
* Annual Rolling Average			
Total Trihalomethanes (TTHMs) (2020 Testing)	80 ppb	<1 ppb	n/a
Typical Source of Contamination: By-product of drinking water disinfection			
Haloacetic Acids (HAA5) Stage 2 (2020 Testing)	60 ppb	1.3 ppb	N/A
Typical Source of Contaminants: By-product of drinking water disinfection.			
Regulated at the Consumer's Tap			
	Action Level	90th percentile	Ideal Goal
Copper (2019 Testing)	1300 ppb	7.33 ppb	1300 ppb
Typical Source of Contamination: Corrosion of household plumbing fixtures and systems			
Lead (2019 Testing)	15 ppb	3.5 ppb	0 ppb
Typical Source of Contamination: Corrosion of household plumbing fixtures and systems			

The table above lists all the drinking water contaminants that were detected during the 2021 calendar year. The presence of these compounds in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in the table is from testing done January 1 – December 31, 2021. 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.

Important information Regarding Gross Alpha Emitters:

Alpha emitters are naturally occurring radiations in soil, air and water. These emitters generally occur when certain elements decay or break down in the environment. The emitters enter drinking water through various methods including the erosion of natural deposits. There are no immediate health risks from consuming water that contains gross alpha, however some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer. Currently, the highest level of gross alpha detected is 2.4 pCi/L which is below the 15 pCi/L MCL.

Sources of Drinking Water

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.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain compounds in water provided by public water systems. We treat our water according to EPA's regulations. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.



Lead Prevention

If present, elevated levels of 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. The Villas at Cattail Creek is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your drinking water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the EPA Safe Drinking Water Hotline at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>.

Contaminants That May Be Present in Source Water:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses. 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. 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.

If you have any questions about this report or your drinking water, please call Jay Janney at 410-729-8350 or email your request to jjanney@menv.com.



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Polyfluoroalkyl Substances

PFAS – short for per- and polyfluoroalkyl substances – refers to a large group of more than 4,000 human-made chemicals that have been used since the 1940s in a range of products, including stain- and water-resistant fabrics and carpeting, cleaning products, paints, cookware, food packaging and fire-fighting foams. These uses of PFAS have led to PFAS entering our environment, where they have been measured by several states in soil, surface water, groundwater and seafood. Some PFAS can last a long time in the environment and in the human body and can accumulate in the food chain.

Currently, there are no federal regulations (i.e. Maximum Contaminant Levels (MCLs)) for PFAS in drinking water. However, the U.S. Environmental Protection Agency (EPA) has issued a Health Advisory Level (HAL) of 70 parts per trillion (ppt) for the sum of PFOA and PFOS concentrations in drinking water. While not an enforceable regulatory standard, when followed, the EPA HAL does provide drinking water customers, even the most sensitive populations, with a margin of protection from lifetime exposure to PFOA and PFOS in drinking water. Beginning in 2020, the Maryland Department of the Environment (MDE) initiated a PFAS monitoring program. *The combined PFOA and PFAS concentration from samples taken from your water system was 1.0 ppt.* MDE anticipates that EPA will establish an MCL for PFOA and PFOS in the near future. This would entail additional monitoring. Additional information about PFAS can be found on the MDE website: mde.maryland.gov"

Water Conservation

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference—try one today and soon it will become second nature.

- ◆ Check for water leaks by the reading your water meter before and after a two hour period when no water is being used in your home. If the reading changes then there is probably a leak in your home.
- ◆ Take a shower! Filling up a bathtub can use up to 70 gallons of water while a shower generally uses 10 to 25 gallons. Taking shorter showers saves even more water.
- ◆ Make sure your washing machine and dishwasher are fully loaded before running.
- ◆ Are you in the market for a new water fixture such as a faucet, showerhead or toilet? Consider a WaterSense labeled fixture and reduce your water use by 30% percent or more versus standard flow fixtures. Visit www.epa.gov/watersense for more information on water efficiency products and methods.

Source: <http://www.epa.gov/watersense> & <http://eartheasy.com>





Consumer Confidence Report Certification

Water System Name: _____

Water System Number: _____

I confirm that the Consumer Confidence Report (CCR) for the year **2021** has been delivered to customers (and appropriate notices of availability have been given) in accordance with COMAR 26.04.01.20-2 by **July 1, 2022**. I further certify that the report is correct and consistent with compliance monitoring data previously submitted to the Maryland Department of the Environment (MDE). Submit completed form to watersupply.sampleresults@maryland.gov.

Certified by (print name): _____

Certified by (signature): _____ Date _____

Title: _____

Telephone: _____ Email: _____

CCR delivery information (must include completion dates for all applicable delivery actions; see reverse for delivery requirements):

Date CCR was delivered to MDE _____

Date CCR was delivered to customers _____

Indicate method(s) used to deliver CCR to customers:

Postal mail

Electronic delivery*. Describe electronic delivery method: _____
(*An electronic delivery plan must be approved by MDE prior to implementation of electronic delivery.)

Other delivery methods (e.g., door-to-door delivery, posting in an appropriate location). Describe delivery method: _____

Date a notice of CCR availability was published _____

Date CCR published in local newspaper (attach copy) _____

Date CCR delivered to other agencies (if required by the State) _____ Attach list or description (optional).

“Good faith” efforts:

Indicate the date(s) that any of the following “good faith” efforts were used to reach non bill-paying consumers:

_____ CCR posted on the Internet (include Internet address: _____)

_____ CCR mailed to postal patrons (bulk mail) within the service area (attach zip codes).

_____ Advertising availability of the CCR in news media (attach copy of announcement).

_____ CCR published in local newspaper (attach copy).

_____ Delivery of multiple copies to single bill addresses serving several persons, such as apartments, businesses, and large private employers.

_____ Delivery to community organizations (attach a list).

_____ Other (describe delivery method): _____

Tier 3 Public Notices:

Check here if a monitoring or reporting violation public notice, fluoride secondary maximum contaminant level notice, special notice for the availability of unregulated contaminant monitoring date, or other Tier 3 Public Notice was included with the CCR.

Mandatory for systems serving 100,000 or more persons:

CCR must be posted on a publicly accessible Internet site. Indicate the date the CCR was made available on the Internet: _____ . Include Internet address: _____

Code of Maryland Regulations (COMAR) **26.04.01.20-2 Consumer Confidence Report Delivery**

(G.) Report Delivery and Record Keeping.

(1) Except as provided in §H of this regulation, each supplier of water to a community water system shall mail or otherwise directly deliver* one copy of the report to each customer.

(2) The supplier of water to a community water system shall make a good faith effort to reach consumers who do not get water bills, using means recommended by the State. Good faith effort will be tailored to the consumers who are served by the system but are not bill-paying customers, such as renters or workers. A good faith effort to reach consumers would include a mix of methods appropriate to the particular system such as: posting the reports on the Internet; mailing to postal patrons in metropolitan areas; advertising the availability of the report in the news media; publication in a local newspaper; posting in public places such as cafeterias or lunch rooms of public buildings; delivery of multiple copies for distribution by single-biller customers such as apartment buildings or large private employers; or delivery to community organizations.

(3) Not later than the date the system is required to distribute the report to its customers, each supplier of water for a community water system shall mail a copy of the report to the State, followed within 3 months by a certification that the report has been distributed to customers, and that the information is correct and consistent with the compliance monitoring data previously submitted to the State.

(4) Not later than the date the system is required to distribute the report to its customers, each community water system shall deliver the report to any other agency or clearinghouse identified by the State.

(5) Each community water system shall make its reports available to the public upon request.

(6) Each community water system serving 100,000 or more persons shall post its current year's report to a publicly accessible site on the Internet.

(7) Any supplier of water subject to this regulation shall retain copies of its consumer confidence report for no less than 3 years.

SYSTEMS SERVING < 10,000

(H.) The requirement of §G(1), (5) and (6) of this regulation for a supplier of water to a community water systems serving less than 10,000 persons has been waived. Such systems shall:

(1) Publish the reports in one or more local newspapers serving the area in which the system is located;

(2) Publish a notice in the newspaper, or by other means approved by the State, that informs the customers that the reports will not be mailed; and

(3) Make the reports available to the public upon request.

SYSTEMS SERVING ≤ 500

(I.) Supplier of water to systems serving 500 or fewer persons may forego the requirements of paragraphs §H (1) and (2) if they provide notice at least once per year to their customers by mail, door-to-door delivery or by posting in an appropriate location that the report is available upon request.

** Electronic delivery may be used to fulfill direct delivery requirements. However, each water system must obtain approval from MDE prior to implementation of electronic delivery. Refer to the following document for information regarding acceptable electronic delivery methods:*

<https://www.epa.gov/ccr/how-water-utilities-can-electronically-delivery-their-ccr>