



2024
Annual Drinking Water Quality Report
Chapel Point Woods Community – MD0080064
Charles County, Maryland
Prepared by the Department of Public Works
Utilities Division

We are pleased to present the Annual Drinking Water Quality Report for the Chapel Point Woods Community for the period of January 1, 2024, through December 31, 2024. This report informs you about the quality of the water and services we deliver to you every day. This report is provided in compliance with Federal regulations and is updated annually.

Our constant goal is to provide you with a safe and dependable supply of drinking water. We are committed to protecting water resources, improving the water treatment process, and ensuring the quality of your water meets or exceeds all local, State, and Federal standards and regulations. We are confident the drinking water from the Chapel Point system is safe and meets all Federal and State requirements. A source water assessment was performed by MDE and is available on their website, mde.maryland.gov.

Usted puede obtener esta información en español, llamando al Departamento de Obras Públicas División de Utilidades en 301-609-7400.

The source of the drinking water for the Chapel Point system is the Patapsco aquifer. An aquifer is an underground reservoir or deposit of water that is tapped by drilling wells and pumping the water to the surface for distribution. The earth between the surface and the underground aquifer helps to purify the water, making it easier to treat the water supply before it is pumped into the water distribution system. The Chapel Point system is served by 4 wells.

Sources of drinking water

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

Source name	Type of Water	
Water Source, well name		
CHAPEL POINT 1 CH732073	Ground water	
CHAPEL POINT 3 CH880766	Ground water	
JUDE HOUSE WELL 1 CH945204	Ground water	
JUDE HOUSE WELL 2 CH951343	Ground water	

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or manmade, such as microbes, inorganic or organic chemicals, and radioactive substances. 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. The elderly, infants, and immunocompromised persons, such as persons with cancer who are undergoing chemotherapy, persons who have undergone organ transplants, people with Human Immunodeficiency Virus/Acquired Immunodeficiency Syndrome (HIV/AIDS) or other immune system disorders, can be at a higher risk of infection from contaminants. These people should seek advice about drinking water from their healthcare providers. The Environmental Protection Agency/Center for Disease Control (EPA/CDC) guidelines to reduce the risk of infection are available from the Safe Drinking Water Hotline at 1-800-426-4791.

The Department of Public Works, Utilities Division, routinely monitors the Chapel Point system for contaminants in your drinking water according to Federal and State laws. The following table shows the results of our monitoring efforts and identifies the year a contaminant was tested. The results of testing for contaminants which are not regulated are listed in the Unregulated Contaminants section. Definitions of key terms are presented below the table.

Chapel Point /Jude House System

Test Results						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Major Source in Drinking Water
Disinfectants and Disinfection By-Products						
Chlorine (2024)	N	0.6 – 1.52	Ppm	MRDLG 4	MRDLG 4	Water Additive used to control Microbes
Highest Detected Chlorine (2024)	N	1.52	ppm	4	4	Water additives to control microbes
HAA5s (Haloacetic Acids) Distribution (2023)	N	6.7	Ppb	No goal for the total	60	By-product of drinking water chlorination
TTHMs [Total Trihalomethanes] Distribution (2023)	N	19.4	Ppb	No goal for the total	80	By-product of drinking water chlorination
Radioactive Contaminants						
Gross Alpha Excluding Radon and Uranium (2024)	N	0 – 4.4	pCi/L	0	15	Erosion of natural deposits
Gross Alpha excluding Radon and Uranium. Chapel Point wells (2024) Chapel Point Well Highest RAA Range Jude House Well Highest RAA Range	N	0.90 0.15 – 0.40 5.50 0.25 – 1.625	pCi/L	0	15	Erosion of natural deposits
Combined Radium 226/228 (2023)	N	0.3	pCi/L	0	5	Erosion of natural deposits
Radium-228	N	0.8	pCi/L	0	5	Erosion of natural deposits
Radon	N	31.2 -83.1	pCi/L		No MCL Present	From natural decay of uranium and radium in rocks and soil.
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Major Source in Drinking Water
Chloroethane (2022)	N	1.29-1.52	ug/l	3	5	Originates from industrial releases.

Lead and Copper data

Lead and Copper	Date Sampled	Action Level (AL)	90 th Percentile	# sites Over AL	Units	Range of Tap sampling
Lead Distribution (2023)	2023	0.015	< 0.002	0	ppm	ND
Copper Distribution (2023)	2023	1.3	0.132	0	ppm	0.076 – 0.144

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	2024	0.9	Ppm	0.6 - 1.52	4	4	Water additive used to control microbes

Definitions of Key Terms

- Action Level (AL) – The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a system must follow.
- 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.
- Maximum Residual Disinfection 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 the control of microbial contaminants.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of 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.
- Non-Detects (ND) – The laboratory analysis indicates the contaminant is non-detectable.
- Parts per billion (ppb) or Micrograms per liter (µg/L) – The equivalent of 1 minute in 2,000 years or a single penny in \$10,000,000.00
- Parts per million (ppm) or Milligrams per liter (mg/L) – The equivalent of 1 minute in 2 years or a single penny in \$10,000.00.
- Picocuries per liter (pCi/L) – A measure of the radioactivity in water. The equivalent of one penny in \$10,000,000,000.00, or one penny in 10 trillion dollars.
- Parts per trillion (PPT) – The equivalent of one penny in \$10,000,000,000.00 or one penny in ten trillion dollars.
- Avg – average value

In recent years EPA and MDE have been studying Polyfluoroalkyl substances and its effects on potable water. 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.

The Maryland Department of the Environment (MDE) conducted a PFAS monitoring program for Community Water Systems from 2020 to 2022. The results are available on MDE's website: <https://mde.maryland.gov/PublicHealth/Pages/PFAS-Landing-Page.aspx>.

The Environmental Protection Agency (EPA) proposed regulations for 6 PFAS compounds in drinking water in March 2023. The MCLs for PFOA and PFOS are proposed to be 4.0 parts per trillion (ppt). The proposal for HFPO-DA (GenX), PFBS, PFNA and PFHxS is to use a Hazard Index of 1.0 (unitless) to determine if the combined levels of these PFAS pose a risk and require action.

The 5th Unregulated Contaminant Monitoring Rule (UCMR5) began testing for 29 PFAS compounds and lithium in 2023, and testing will run through 2025. The UCMR5 should test all community water systems with populations of at least 3300 people. Three randomly selected systems in Maryland with populations less than 3300 people will also be tested under the UCMR5. Detections greater than the minimum reporting levels for each constituent should be reported in the CCR.

Radon is a radioactive gas that you cannot see, taste, or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. (You should pursue radon removal for your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that are not too costly. For additional information, call your state radon program or call EPA's Radon Hotline (800-SOS-RADON).

MCLs are set at very stringent levels. 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 experiencing adverse health effects from the contaminant. The presence of some contaminants in drinking water is unavoidable, but we make every effort to keep your drinking water at or below the levels specified by law as being safe for consumption.

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. Charles County Utilities 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 Charles County Utilities at 301-609-7400. 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>.

An initial inventory of service line pipe materials located within our service area was required to be submitted to the Maryland Department of the Environment (MDE) by October 16, 2024. Our initial inventory was submitted to MDE on 10/15/2024 and is available upon request. Additionally, this report is available at <https://www.charlescountymd.gov/slai>

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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

The staff of the Department of Public Works, Utilities Division, works diligently to provide top-quality water and excellent customer service. All customers are urged to protect our valuable water resources and practice conservation to ensure a sustainable water supply for our community. If you have any questions concerning this report or any aspect of your water utility, please contact Sam Simanovsky, Regulatory Compliance Officer at 301-609-7400.