

Metcom St. Mary's County Metropolitan Commission

2023 Annual Water Quality Report

Lexington Park Community

PWSID #0180007

“Investing in a water secure future for St. Mary's County”

Continuing Our Commitment

Once again the St. Mary's County Metropolitan Commission (the Commission) proudly presents its Annual Water Quality Report. This edition encompasses all testing completed from January 1 through December 31, 2023. We are pleased to inform you that our compliance with all State and Federal drinking water laws remains exemplary. As always, the Commission is committed to delivering the best quality drinking water. To that end, we remain vigilant in meeting the challenges of source water protection, water conservation, and community education while continuing to serve the needs of all of our water users. For more information on water quality or other questions regarding this report contact Dwayne Cantrell at 301-737-7400 Ext. 104.

Metcom Mission

Construct, operate and maintain public water supply and public waste water conveyance and treatment systems in a manner that is sustainable, reliable, economical and safe for the Commission's employees, the environment, and the citizens of St. Mary's County; and to ensure that construction is timely and in accordance with the St. Mary's County Comprehensive (Land Use) Plan.

How Can I Get Involved?

The public is invited to participate in the Commission meetings and voice concerns about the drinking water or any Commission-related issues. The public meetings are held on the second and fourth Thursday of every month beginning at 3 pm. Meetings are held at the Commission's Main Office, 23121 Camden Way, California, MD 20619.

The Commission members and the election district (ED) that they represent are as follows: Gerald E. Meyerman Chairman (ED1); Roy Alvey (ED2/9); Joe Russell Co-Chairman (ED3); Dale Antosh (ED4/5); Keith S. Dugan (ED6); Joseph Mattingly III, (ED7); Joseph Gould (ED8); Captain Douglas Burfield USN Commanding Officer, Patuxent River NAS; and the Director of the St. Mary's County Metropolitan Commission, George Erichsen.

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Important Health Information

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. Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system and may have an increased risk of getting cancer. EPA/CDC (Environmental Protection Agency/Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791)

Water Conservation Tips

Water conservation measures are an important first step in protecting our water supply. Such measures not only save the supply of our source water, but can also save you money by reducing your water bill.

Here are a few suggestions:

Conservation measures inside your home include:

- Fix leaking faucets, pipes, toilets, etc.
- Replace old fixtures; install water saving devices in faucets, toilets, and appliances;
- Wash only full loads of laundry;
- Do not use the toilet for trash disposal;
- Take shorter showers;
- Do not let the water run while shaving or brushing teeth;
- Soak dishes before washing;
- Run dishwasher only when full.

Information on The Internet

The U.S. EPA Office of Water (www.epa.gov/watrhome) and the Centers for Disease Control and Prevention (www.cdc.gov) Web sites provide a substantial amount of information on many issues relating to water resources, water conservation, and public health. Also, the Maryland Department of the Environment Web site (www.mde.state.md.us/water) provides complete and current information about water issues in Maryland, including valuable information about our watershed.

Substances That Might Be in Drinking Water

To ensure that tap water is safe to drink, the U.S. EPA imposes regulations that limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for the contaminants in bottled water, which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily indicate that the water poses a health risk.

The source of drinking water (both tap and bottled water) includes 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, in some cases, radioactive material; and substances resulting from the presence of animals or from human activity. Substances 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, or wildlife.

Inorganic Contaminants, such as salts and metals, which can be naturally occurring or may result from urban storm water 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 which may also come from gas stations, urban storm water runoff, and septic systems.

Radioactive Contaminants, which can be naturally occurring or may be the result of oil and gas production and activities.

For more information about contaminants and potential health effects, call the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

Source Water Assessment

The Maryland Department of the Environment's Water Supply Program (WSP) has conducted a Source Water Assessment for the 35 community water systems in St. Mary's County, including the Lexington Park community supply. The required components of this report as described in Maryland's Source Water Assessment Program (SWAP) are (1) delineation of an area that contributes water to the source, (2) identification of potential sources of contamination within the areas, and (3) determination of the susceptibility of the water supply to contamination. Recommendations for protecting the drinking water supply conclude this report.

The water supply sources of the community systems in St. Mary's County are naturally protected, confined aquifers of the Atlantic Coastal Plain physiographic province. The Lexington Park water system is currently using 19 wells that pump water from the Aquia, Piney Point, and Patapsco formations. The wellhead protection areas were delineated by the WSP using the U.S. EPA's approved methods specifically designed for each source. Potential point sources of contamination within and near the assessment areas were noted from field inspections and contaminant inventory databases. Well information and water quality data were also reviewed.

The susceptibility analysis is based on a review of the existing water quality data for each water system, on the presence of potential sources of contamination in the individual assessment areas, on well integrity, and on aquifer characteristics. It was determined that the Lexington Park water supply is not susceptible to contaminants originating at the land surface due to the protected nature of confined aquifers. The wells that obtain water from the Aquia formation (Plants 1,2,4,6-10,12,15-18,20,21,25) are susceptible to naturally occurring arsenic (based on the new EPA standard). The susceptibility of the water supply to radon-222, a naturally occurring element, will depend on the final MCL (Maximum Contaminant Level) that is adopted for this contaminant.

Copies of the Source Water Assessment are available at the Commission main office, or visit our website at www.metcom.org.

Where Does My Water Come From?

All of the water that the Commission provides to its customers is drawn from confined aquifers. The confining units are thick, impervious clay layers that lie above and below the water-bearing sand strata. We are very fortunate that these confining layers naturally protect our aquifers. The only treatment your water receives prior to entering the water distribution system is the addition of chlorine as a precautionary disinfecting agent. Your drinking water is drawn and distributed from 18 underground wells. Twelve are in the Aquia Aquifer, which ranges in depth from 450 - 600 feet. One well is in the Piney Point Aquifer, which lies 360 feet below the earth's surface. Five are in the Patapsco Aquifer, which lies about 925 feet underground.

Additional Information for Lead

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. MetCom 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 MetCom Dwayne Cantrell EXT.104. 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>.

Arsenic Regulation

While your drinking water meets EPA's standard for arsenic, it does contain low detectable levels. EPA standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems. All Commission wells are in compliance with EPA requirements.

Sampling Results

During the past year the Commission conducted hundreds of water samples in order to determine the presence of any radioactive, biological, inorganic, volatile organic or synthetic organic contaminants. The table below shows only those contaminants that were detected in the water. Although all of the substances listed here are under the maximum contaminant level (MCL), it is important that you are aware of what was detected and the quantity of the substance present in the water sample.

State Regulations allow us to monitor for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

Fluoride

No fluoride has been added to any of our water systems. However, small amounts of fluoride exist naturally in our water source. These levels may not meet the recommended amounts for dental protection. You may wish to consult with your dental care provider to discuss fluoride supplements. To inquire about the amount of fluoride detected in the water system, please call the Water Division at (301) 737-7400 between the hours of 8:00 a.m. and 4:30 p.m.

Regulated Contaminants Detected
2022

Disinfection By Products	Sample Date	Unit	MCL	MCLG	Range of Levels Detected	Results	Likely Source of Contamination
Chlorine	2023	ppm	4	4	0.4-1.7	1.4	Water additive to control microbes.
HAA5 Haloacetic acids	2023	ppb	60	No goal for detection	0-3.9	3	By-product for drinking water disinfection
TTHM Total Trihalomethane	2023	ppb	80	No goal for detection	2.3-8.8	8	By-product for drinking water disinfection
Regulated Inorganic Contaminates							
Arsenic	2023	ppb	10	0	0-8	7	Erosion of natural deposits: Run off from orchard glass and electronic wastes.
Barium	2023	ppm	2	2	0-0.046	0.046	Discharge of drilling waste Discharge from metal refineries Erosion of natural deposits
Fluoride	2023	ppm	4	4	0.23-0.57	0.57	Erosion of natural deposits Water additive promotes strong teeth: Discharge from fertilizer and aluminum factories
Antimony	2022	ppb	6	6	0-6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; test addition
Nitrate [measured as Nitrogen]	2023	ppm	10	10	0-2	2	Run off from fertilizer Use; Leaching from septic tanks; sewage; Erosion of natural deposits
Lead and Copper			Action Level	Sites Over AL		90th Percentile	
Copper	2023	ppm	1.3	0		0.121	Erosion of natural deposits Leaching from wood preservatives Corrosion of household plumbing
Lead	2023	ppb	15	0		Non-Detect	Corrosion of household plumbing Erosion of natural deposits
RADIOACTIVE CONTAMINANTS							
Beta/photon emitters	2022	pCi/L	50	0	5-5	5	Decay of natural and man-made deposits

Unregulated Contaminants	Sample Date	Unit	MCL	MCLG	Range of Levels Detected	Results	Possible Source
PFOA/PFOS	2021	Ppt	N/A	N/A	N/A	N/D	By-product of man- made substance

DEFINITIONS

In this report 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:

ND = Non-Detects

Indicates that the substance was not found by laboratory analysis.

ppm = Parts Per Million or Milligrams Per Liter (mg/l)

One part per million corresponds to one minute in two years or a single penny in \$10,000.00.

ppb = Parts Per Billion or Micrograms Per Liter (ug/l)

One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.00.

pCi/L =Picocuries Per Liter

Picocuries per liter is a measure of the radioactivity in water.

AL = Action Level

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

(Note: Only applies to copper and lead levels)

MCLG = Maximum Contaminant Level Goal

The "Goal" is 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.

MCL = Maximum Contaminant Level

The "Maximum Allowed" is 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.

N/A = Non-Applicable

No minimum levels have been established by the EPA.

ppt = Part Per Trillion or Nanograms Per Liter (ng/L)

One Part Per Trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

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.

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) finalized regulations for 6 PFAS compounds in drinking water in April 2024. The MCLs for PFOA and PFOS are each 4.0 parts per trillion (ppt). The MCLs for PFNA, PFHxS, and HFPO-DA (GenX chemicals) are each 10 ppt. Additionally, a mixture of two or more of the following chemicals (PFNA, PFHxS, HFPO-DA,

and PFBS) will be regulated with a Hazard Index of 1 (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.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for Lexington Park

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During August 2023 we did not monitor for disinfection byproducts and therefore cannot be sure of the quality of your drinking water during that time.

All community and non-transient non-community drinking water systems that add a disinfectant other than ultraviolet light (or deliver water that has been treated with a disinfectant other than ultraviolet light) must monitor for disinfection byproducts in the distribution system.

We took the samples in August 2023, just as the state requires. However, due to a lab equipment malfunction, the lab could not process the samples in the required time. We cannot sample Stage 2 Disinfection Byproducts other than in August. We will retest this coming August 2024. Looking back at the earlier CCRs, you will see that we have never been over the MCL.

Please share this information with all the other people who drink this water, especially those who have not received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

What should I do?

There is nothing you need to do at this time.

What is being done?

We will retest in August of 2024

For more information, please contact Dwayne Cantrell of MetCom at 301-737-7400 EXT. 104

Water System Number: **MD0180007** Date Distributed: June 2024

VIOLATION

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During January 1, 2023 to December 1, 2023 we did not complete testing for NITRATE and therefore cannot be sure of the quality of our drinking water during that time

Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.

This system has eleven wells that are in the Aquia Aquifer; we did not take the sample from the Bank Square Facility due to the well being offline. All other wells that were tested was below the MCL for Nitrates.