

County Executive Stuart Pittman's Message

am proud to share Anne Arundel County's 2022 Consumer Confidence Report with Lyou and let you know that the drinking water produced and delivered to your home is clean and safe for consumption. Providing high-quality drinking water to our communities is the number one goal of the dedicated professionals in the Department of Public Works (DPW) Bureau of Utilities, and this report provides you with important information on the thousands of water quality tests administered over the past year. We have continued our long-standing record of exceeding all federal standards for drinking water quality and safety, and we will continue to provide clean, safe, and reliable water to all who live, work, or visit Anne Arundel County.

How to Contact DPW:

Visit us online at www.DPWandYou.com. 24-Hour Emergency Hotline: (410) 222-8400

From South County: (410) 451-4118

Billing Office: (410) 222-1144 Customer Relations: (410) 222-7582

Edward Cope: 410-222-8114

General Information: (410) 222-7500

View this report online at

http://www.aacounty.org/departments/ public-works/utilities/forms-andpublications/WaterQuality2022.pdf.

Lead in Home Plumbing

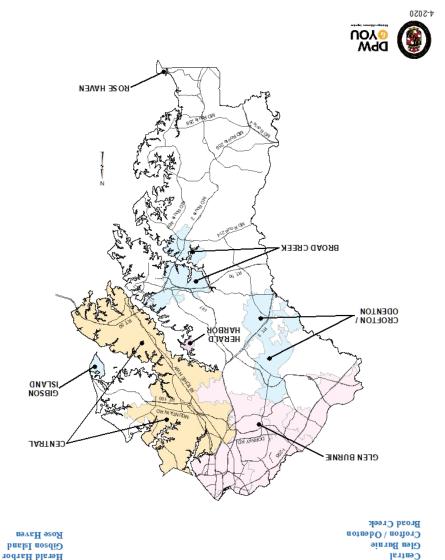
ead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Anne Arundel County is responsible for providing high quality drinking water and removing lead pipes, 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 Eddie Cope at 410-222-8114. 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.

Important Health Information

S ome people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 may be particularly

at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other

microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791 or http://water.epa.gov/drink/hotline.



Anne Arundel County Water Service Areas

vide roughly 12.6 billion gallons of clean drinking water every year. Parapsco, Paruxent, and Aquiters. Combined, our treatment facilities pro-Arour deep aquifers. Our 12 water treatment facilities draw water from the

Where Does My Water Come From?

PFAS Monitoring Program

Der- and polyfluoroalkyl substances (PFAS) refer to a group of more than 4,000 human-I 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 firefighting foams. These uses 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 the human body and can accumulate in the food chain.

Beginning in 2020, MDE initiated a PFAS monitoring program. Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) are two of the most prevalent PFAS compounds. Neither of these substances was found above the laboratory detection limit in samples taken from our water system in 2022.

In March 2023, EPA announced proposed Maximum Contaminant Levels (MCLs) of 4 ppt for PFOA and 4 ppt for PFOS, and a Group Hazard Index for four additional PFAS compounds. Future regulations would require additional monitoring as well as certain actions for systems above the MCLs. EPA will publish the final MCLs and requirements by the end of 2023 or beginning of 2024. Additional information about PFAS can be found on the MDE website: mde.maryland.gov/PublicHealth/Pages/PFAS-Landing-Page.aspx.

Substances That Could Be in Water

To ensure that tap water is safe to drink, the U.S. EPA prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for 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 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, 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 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 may also come from gas stations, urban stormwater runoff, and septic systems;

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

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

and Rose Haven treatment facilities. A total of 10 treatment facilities were tested on 7/13/22, results returned to the County on 7/22/22 and reports were submitted to MDE on 7/26/22, but MDE did not receive the results prior to the reporting deadline. The state recommends monitoring 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. ur water is monitored for many different kinds of substances on a very strict sampling schedule, and the water we deliver must meet specific health standards. Here, we only show those substances that were detected in our water (a complete list of all our analytical results is available upon request). Remember that detecting a substance does not mean the water is unsafe to drink; our goal is to keep all detects below their respective maximum allowed levels. Anne Arundel County received a moni oring violation for the non-reporting of Inorganics for the Arnold, Gibson Island

for the raw and finished water. The Phase II/V Metals have been collected on the finished water on March 23, 2023 in the Glen Burnie/Broadneck and Gibson Island systems, which satisfies the requirements for Anne Arundel County received violations for Phase II/V Metals Monitoring for the Glen Burnie/Broadneck (0020017) and Gibson Island (0020013) systems for the 2020-2022 period. These samples were collected on the raw water for these systems, to which samples should have been collected the Phase II/V Metals testing.

0/10 ¹ No
SITES ABOVE AMOUNT SITES ABOVE AL/TOTAL DETECTED AL/TOTAL SITES (90TH %ILE) SITES VIOLATION
Gibson Island Zone Rose Haven Zone
NA NA NA 0.6
1.7–1.7 3.9 2.1–3.9 27.9
NA ND NA ND
NA ND NA 13.1
0.14-1.13 1.09 0.20-1.09 0.99
NA NA NA 0.5 ²
0.6–0.6 ¹ 0.3 0.3–0.3 ND ¹
NA ⁵ ND ¹ NA ND ¹
NA NA NA
NA ⁵ 0.01 ³ 0.01–0.01 ³ 0.07 ³
NA ² NA NA NA
RANGE HIGHEST RANGE HIGHEST
Herald Harbor Zone Gibson Island Zone Rose Haven Zone

Definitions

Sodium (ppm)

Manganese (ppb)

2020 2020 2022 2022

17.0 NA NA 1.5

1.91-17.0

ND-3.3

 $1.4 - 7.5^{2}$

 $2.0-2.0^{3}$ $0.4-0.4^{3}$

MA X N_A N_A XA

N_A

NA

X X

sions of the Safe Drinking Water Act. The Maryland Department of the Environment (MDE) is the lead agency in developing these assessments, which have been completed for all of the county's water systems.

To obtain more information, contact MDE, Water Supply Division, at

supply. The assessment does not address the treatment or distribution aspects of the water system, which are covered under separate provi-

Aability to contamination of the source of a public drinking water

Source Water Assessment

 $_{\rm A}^{\rm N}$ NA

> NA NΑ NA NA NA

NA NA NA NA

Naturally occurring

water.supply@maryland.gov.

Naturally occurring

Naturally occurring

1.4 Ϋ́ NA

1.4 - 1.4NΑ

NΑ

ND

NΑ

 ND^3 7.5^{2}

NA

 0.4^{3}

NA NA

NA

2019 2022

15

5-15

2.5 - 3.9

2.5 - 3.922-222

7.7-7.7 12-12

3.6 - 3.6

3.8 - 3.81.0 - 1.0NA NA NA NA NA

3.53

 $3.5 - 3.5^3$

B M

12

D

NΑ

1.0

Dichloroacetic Acid (ppb) Chloromethane (ppb)

Nickel (ppb)

(UNIT OF MEASURE)

SAMPLED 2020

HIGHEST LEVEL ND

RANGE LOW-HIGH

HIGHEST LEVEL

HIGHEST LEVEL 0.58^{2}

RANGE LOW-HIGH

HIGHEST LEVEL

HIGHEST

HIGHEST LEVEL

HIGHEST LEVEL

NA

ΝA NA

Discharge from factories and landfills

NA

TYPICAL SOURCE

ND-0.58

ND

NA

 $_{\rm A}^{\rm N}$ NA

ΝA

1.4 - 1.5

ND ND

ΝA NA

NA

NA

NΑ

N_A X NA

YEAR

SUBSTANCE

Chloroethane (ppb)

Bromochloroacetic Acid (ppb)

90th %ile: The levels reported for lead and copper represent the 90th percentile of the total number of sites rested. The 90th percentile is equal to or greater than 90% of our lead and copper detections.

MD018291-1

which a water system must follow. which, if exceeded, triggers treatment or other requirements AL (Action Level): The concentration of a contaminant

MCL (Maximum Contaminant Level): 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

of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a MCLG (Maximum Contaminant Level Goal): The level

MRDL (Maximum Residual Disinfectant Level): The highest level of a disinfectant allowed in drinking water. is necessary for control of microbial contaminants I here is convincing evidence that addition of a disinfectant

MRDLG (Maximum Residual Disinfectant Level The level of a drinking water disinfectant below whi there is no known or expected risk to health. MRDI Goal):

microbial contaminants. not reflect the benefits of the use of disinfectants

NA: Not applicable.

found by laboratory analysis ND (Not detected): Indicates that the substance was not

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter). pCi/L (picocuries per liter): A measure of radioactivity

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

³Sampled in 2020. ⁴Sampled in 2019. ⁵Sampled in 2018. ⁶Sampled in 2017. ¹Sampled in 2022. ²Sampled in 2021.