



PUREWater

WESTMINSTER
Water for Our Future



Westminister is planning for our water future by launching **PUREWater Westminister**. **PUREWater Westminister** will use proven technology to purify reclaimed water to provide a safe, sustainable, and drought-resistant drinking water supply. This initiative will help Westminister keep local control of its water supply and costs and support continued economic growth, business and commercial development, and community vitality.

PUREWater Westminister helps us prepare for recurring drought conditions by creating a water supply independent from our current reliance on surface and ground water.

Did You Know?

*Westminister relies on approximately 2/3 local surface water and 1/3 well water for our drinking water source. We often face challenges to our water supply, which at times requires state and local water use restrictions to ensure adequate supplies. **PUREWater Westminister** provides a local solution and ensures renewable, sustainable, high-quality water supplies for our community.*

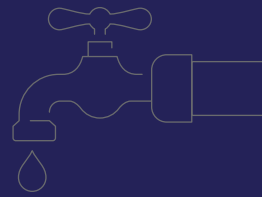
What is Reclaimed Water?

Reclaimed water is formerly wastewater that has been treated and cleaned thoroughly so it meets regulatory and safety standards for non-drinking uses such as agricultural or landscaping irrigation, industrial applications, or manufacturing processes. In Westminister, reclaimed water is currently used for fire suppression and cooling water for frozen food storage. This reclaimed water becomes the source water for **PUREWater Westminister** and completes the urban water cycle.



PUREWater Westminster Facility

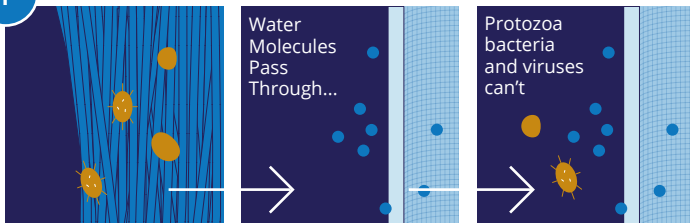
The city has completed its pilot project to produce advanced purified water and ensure it meets the Maryland Department of the Environment's standards. The design of the full-scale **PUREWater Westminster** facility has been completed, and the city is preparing for construction.



What technology is part of Westminster's water purification process?

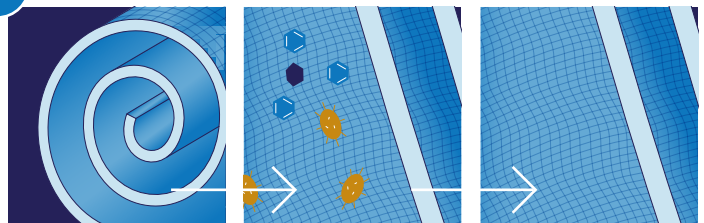
Westminster is utilizing the latest in water purification technology to produce a safe, reliable water supply for our community. The technology consists of a four-step multi-barrier water purification process: membrane filtration, reverse osmosis, advanced oxidation with ultraviolet light, and granular activated carbon. Much of the technology used within this purification process may be used in your home currently, in things like in-home water filtration systems and filtered water pitchers. **This process will result in purified water by removing contaminants, organic and inorganic material, including PFAS. The water produced will meet or exceed state and federal safe drinking water standards.**

1 MEMBRANE FILTRATION (Ultrafiltration)



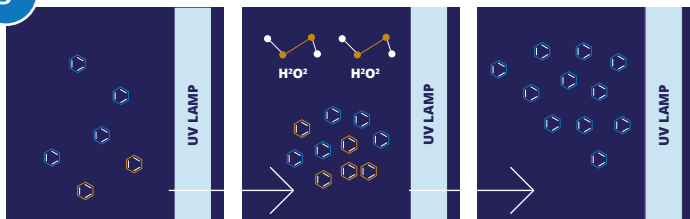
Membrane filtration removes particles as small as one thousandth the diameter of a human hair. Solids, pathogens and bacteria are caught in the membrane fibers and removed.

2 REVERSE OSMOSIS (RO)



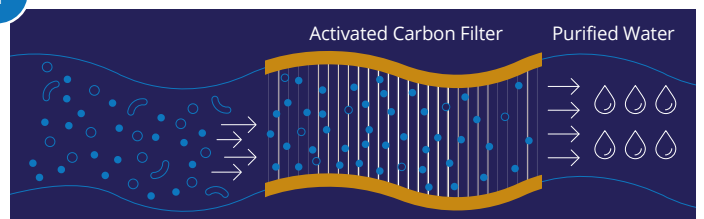
High-pressure pumps force water through a semi-permeable membrane that transmits water but stops dissolved substances including PFA's and other contaminants, down to the molecular level.

3 ADVANCED OXIDATION WITH ULTRAVIOLET LIGHT



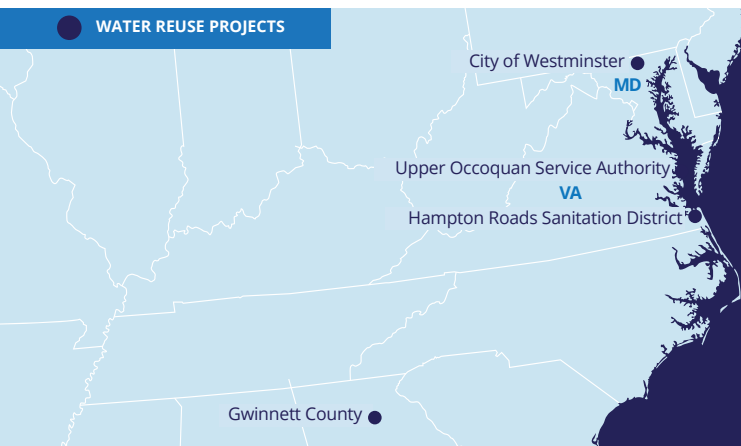
This step uses ultraviolet light, similar to concentrated sunlight, in conjunction with oxidant chemicals like hydrogen peroxide to break apart and neutralize any remaining contaminants and disinfects the water.

4 GRANULAR ACTIVATED CARBON (GAC)



GAC treatment involves pumping water through a column filled with GAC. As water flows through the GAC, the contaminants attach to the outer and inner surfaces of the granules. The water exiting the container is cleaner.

WATER REUSE PROJECTS



PUREWater Westminster is an important step for improving water sustainability in Westminster and can serve as a model for other cities in Maryland and beyond. Water reuse projects are occurring throughout the United States and the world, but here in Maryland, Westminster is leading the way in developing a safe, reliable and sustainable water future for our community.

For more information about water reuse and where it is being done, visit [watereuse.org](https://www.watereuse.org).