

REGIONAL REUSE PURIFICATION SYSTEM



The Regional Reuse Purification System (system) is a critical strategy developed by the Washington County Water Conservancy District and its municipal partners to produce a local, reliable, drought-proof water source that can meet our water needs now and in the future. Through new infrastructure investments, the system will produce more than 24,000 acre-feet of water per year by 2042, enough water to serve more than 40,000 homes.



WHY REUSE?

Washington County communities rely on limited water sources from the Virgin River Basin, which is vulnerable to drought. Our region's growing population and economy demonstrates a need for reliable and locally-controlled water sources. Water reuse will transform our water system by making the most of our water resources to benefit residents, businesses and agriculture.

Did you know: There are currently more than 70 water reuse facilities planned, under construction or operating in the United States.

[Check out the Global Connection Map to see all water reuse projects around the globe.](#)



KEY COMPONENTS

The system will use a network of water infrastructure to purify, store and deliver water throughout Washington County.

3

Water reclamation facilities

1

Advanced Water Purification Facility

4

New reservoirs

2

Existing reservoirs

60

Miles of pipeline



Multiple
Pump stations

BENEFITS



Locally controlled and resilient water supply



Enhanced water quality



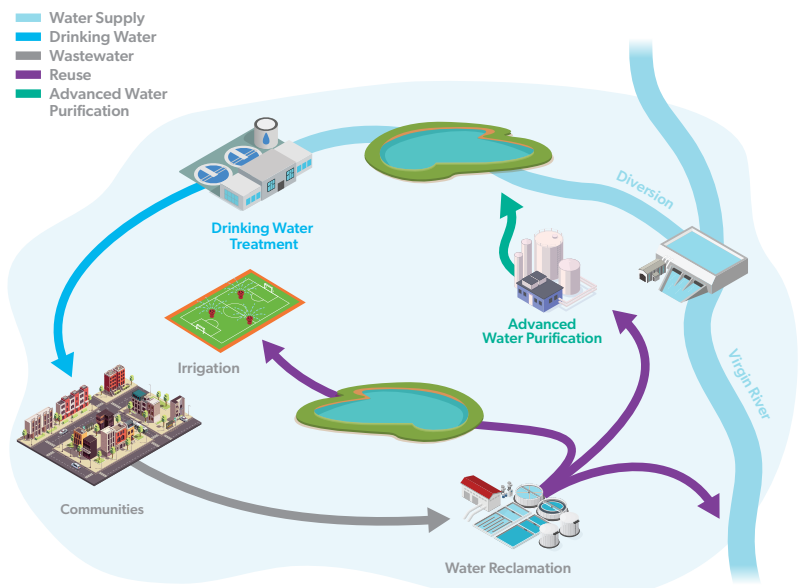
Increased water availability



Environmental protection



Economic investment



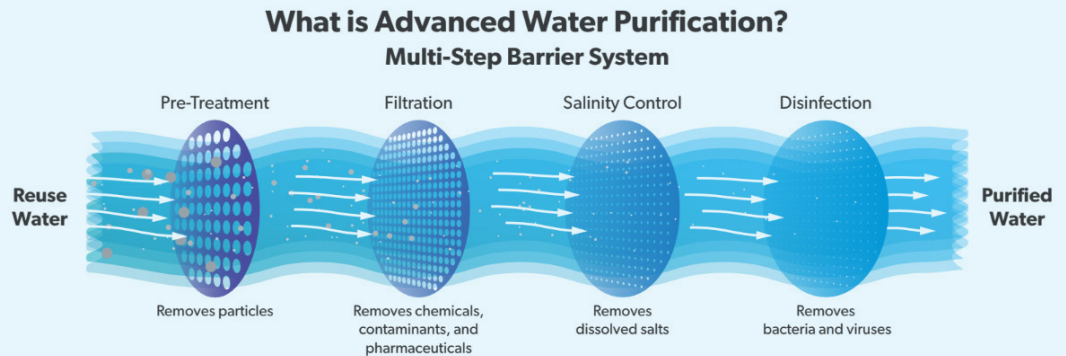
WHAT IS ADVANCED WATER PURIFICATION?

Advanced Water Purification (AWP) combines a series of proven technologies that safely and efficiently purify reclaimed water. The purified water is so clean it meets or exceeds federal and state drinking water requirements. For Washington County, this water will be sent to storage reservoirs to support our drinking water system.

How It Works

Multi-step Barrier System

- Removes pathogens and organics
- Removes chemicals and byproducts
- Reduces salinity



Reverse Osmosis and Ultraviolet Advanced Oxidation are common technologies used to improve water recycling processes to destroy pathogens, remove chemicals and disinfect the water to bring it to drinking water standards.

SUPPORT AND FUNDING

Development of the system is a collaborative effort between the district and its program partners, St. George City and Ash Creek Special Service District. The district and its program partners have secured more than \$1 billion in funding from federal, state and local governments and will continue to pursue all available funding.



WHAT'S AHEAD

Work has begun and within the next few years, we anticipate constructing new reservoirs, miles of pipeline and a new water reclamation facility.

UNDER CONSTRUCTION

- Chief Toquer Reservoir
- Confluence Park Water Reclamation Facility (CPWRF)

DESIGN PHASE

- Graveyard Wash Reservoir
- St. George Reuse Facility (SGRF) Upgrade
- Conveyance Pipelines (East)

PLANNING PHASE

- Advanced Water Purification Demonstration Facility
- Conveyance Pipelines (Central)



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