

PHOENIX WATER:

ONE OF THE NATION'S LEADING UTILITIES

- provider in Arizona
- 5 water treatment plants
- 7,000 miles of pipelines
- Produce over 110 billion gallons per year of clean water

- Largest potable water o 3 wastewater treatment plants
 - 5,000 miles of sewer mains
 - 70 billion gallons per year of recycled water put to beneficial use









Phoenix Water conducts over a million test annually throughout the water and wastewater utility, ensuring compliance with over 100 regulatory standards.



ENGINEERING THE FUTURE

Phoenix Water engineers strategically design innovative infrastructure projects to support water and wastewater services.



OPTIMIZING OPERATIONS

Certified treatment operators ensure water and wastewater facilities are running safely and optimally while meeting all regulatory standards.



PHOENIX RELIES ON SURFACE WATER

ABOUT 98% OF THE WATER WE USE IS SURFACE WATER

- Groundwater (2%)
- Colorado River (40%)
- Salt and Verde (58%)
- U.S. Secretary of the Interior declared a Tier 1
 Shortage on the Colorado River in August 2021
- Phoenix declared a Stage 1 Drought in June 2022
- New Colorado River Operating Guidelines will become effective January 2027



IN THE DESERT, EVERY DROP COUNTS.

SEE WATER DIFFERENTLY



SOLUTIONS

NOW



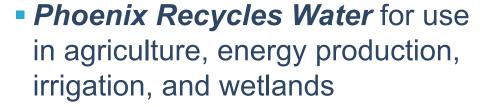










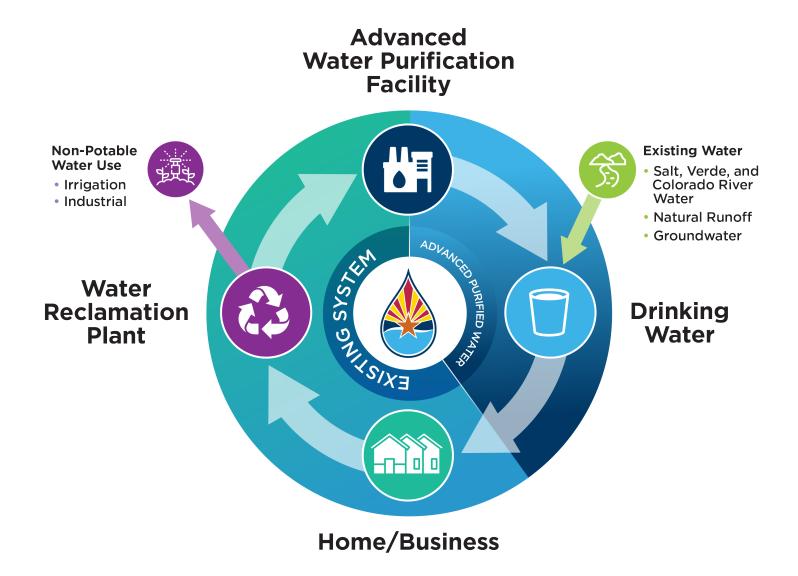






Develop Advanced Purified
 Water to provide a new, safe,
 sustainable, drought-proof water
 supply adding reliability to our
 water sources.

ADVANCED TECHNOLOGY COMPLETES THE WATER CYCLE

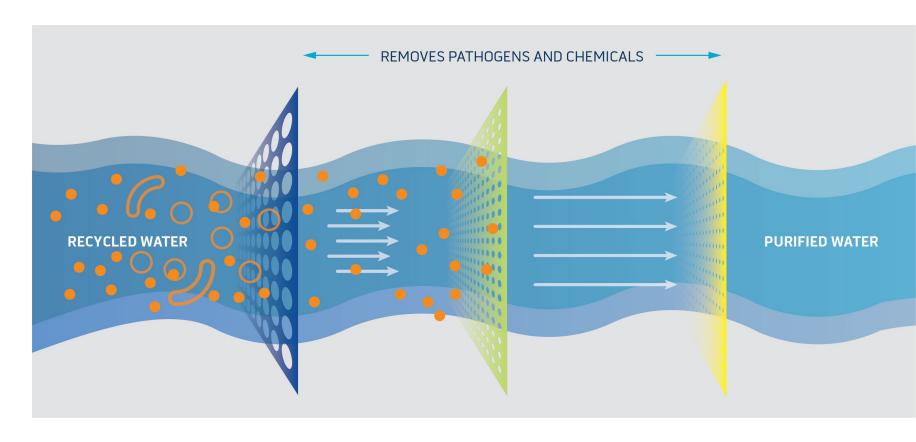


- Phoenix Recycles
 Water for use in
 agriculture, energy
 production, irrigation,
 and wetlands
- Develop Advanced Purified Water to provide a new, safe, sustainable, droughtproof water supply adding reliability to our water sources.

WHAT IS ADVANCED WATER PURIFICATION?

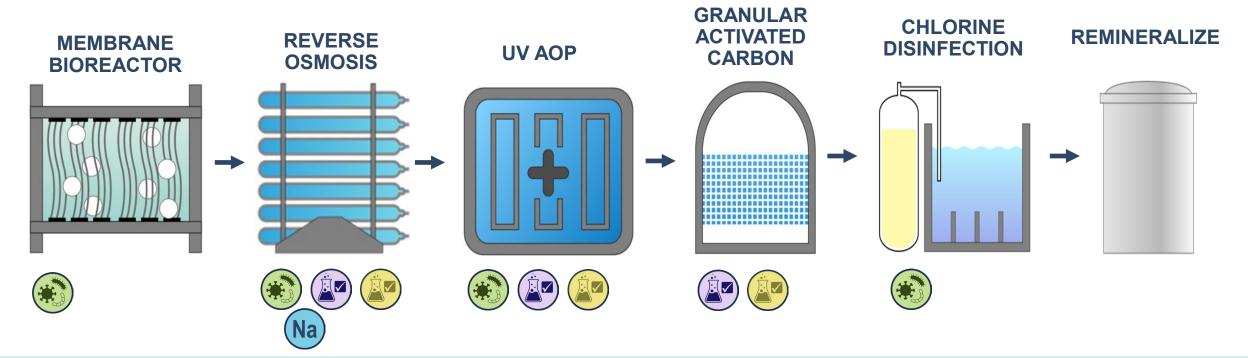
MULTI-STEP BARRIER SYSTEM TO:

- Remove pathogens and organics in the water
- Remove chemicals and byproducts from the water
- Reduce water salinity



CAVE CREEK AWPF

ADVANCED PURIFIED WATER



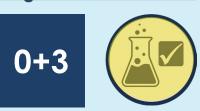
Pathogen Barriers



Chemical Barriers



Unregulated Chemicals



Salinity Control

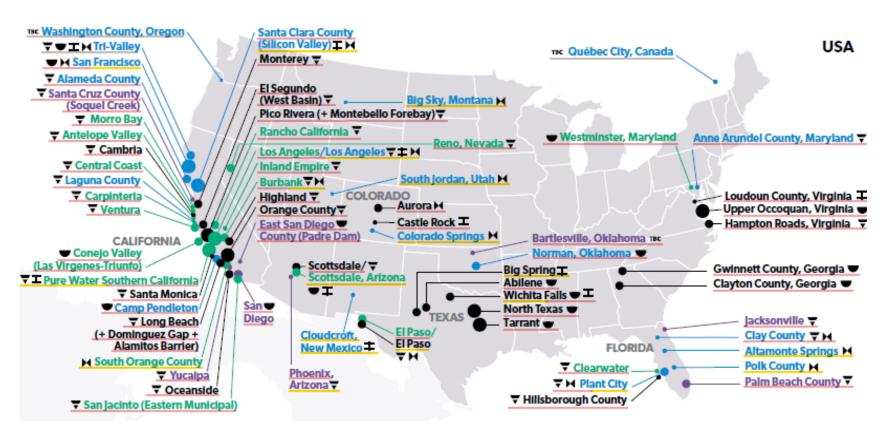




ADVANCED PURIFIED WATER IN THE U.S.

POTABLE REUSE IS PART OF WATER SUPPLY

- U.S. is a leader in advanced water purification
- Communities across the world have systems online or planned
- Safe, reliable and drought resistant

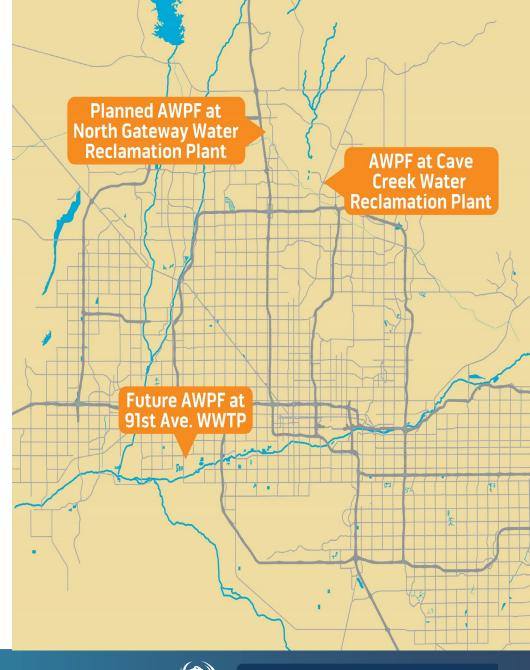


Map courtesy of Water Services Association of Australia in collaboration with WateReuse Association.



ADVANCED WATER PURIFICATION FACILITY (AWPF) FUTURE LOCATIONS

- Cave Creek AWPF
- North Gateway AWPF
- 91st Ave AWFP





CAVE CREEK AWPF

2000

CCWRP brought online

2009

CCWRP taken offline due to economic considerations

2020

Began design for rehabilitation and advanced water purification facility

2023

Design completed

2024

Construction began on Cave Creek Advanced Water Purification Facility

2025

Launch mobile demonstration facility

2027

Complete construction and bring facilities online

2028

Begin water

monitoring

groundwater

recharge

and

Begin delivering drinking water



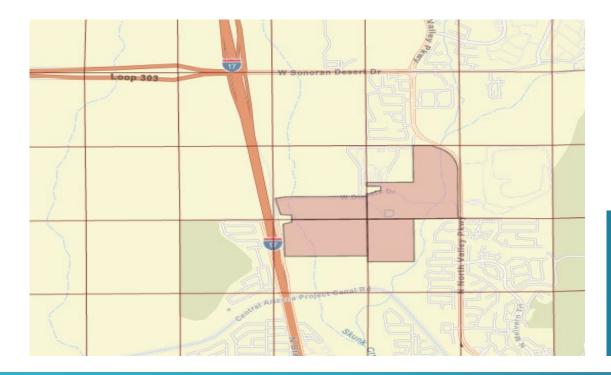
8 MGD



NORTH GATEWAY AWPF

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2025StartDesignConstruction



2029
Construction
Complete
and AWPF
Online

2030 Full-scale Pilot Testing

2031 Direct use

8 MGD



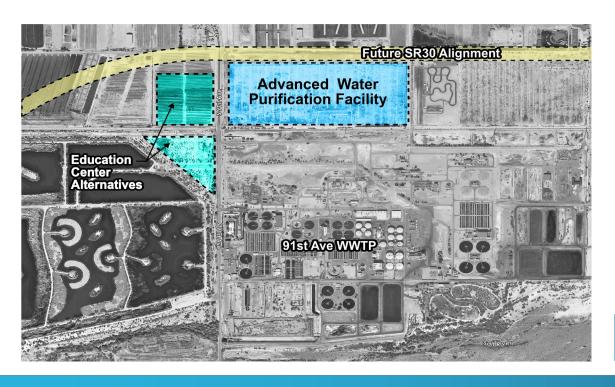
91st AVENUE AWPF

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2029 2030

Start Start

Design Construction



2033

Construction
Complete
and AWPF
Online

2034

Full-scale Pilot Testing 2035

Direct use



















50-80 MGD



ADVANCED PURIFIED WATER



Federal
Safe
Drinking
Water ACT

+

Arizona Advanced Water

Water Purification

Rules

Pure Water Phoenix

"Water should not be judged by its history, but by its quality."

Lucas van Vuuren National Institute of Water Research



ROADMAP

Ongoing

- Public outreach
- Strategize for additional State/Federal funding
- Construction of Cave Creek Water Reclamation Plant and Pure Water Phoenix at Cave Creek
- Feasibility Study for 91st Avenue

Future Activities

- Launch mobile demonstration facility
- Design and permitting for North Gateway and 91st Avenue AWPF



