

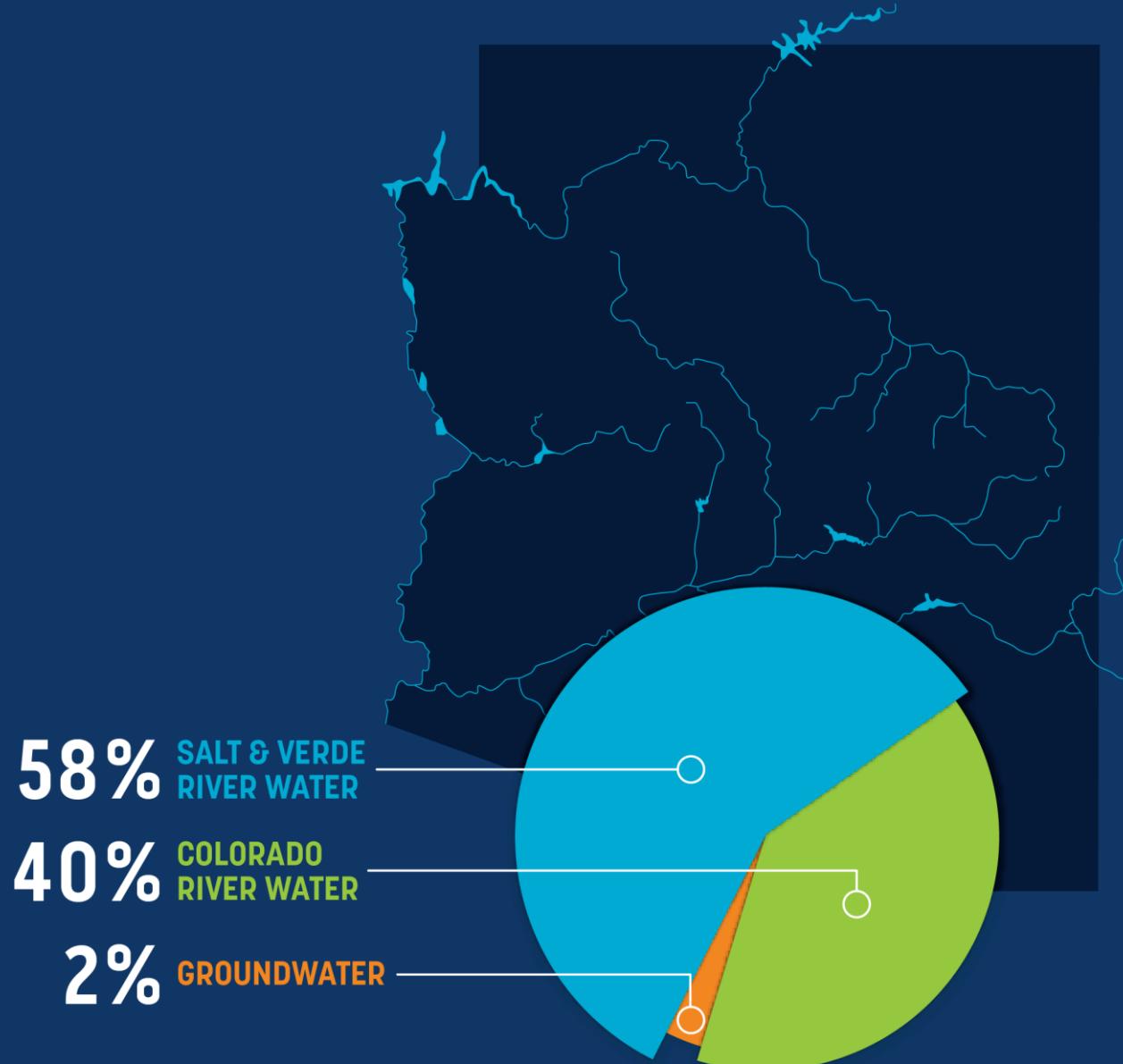


**PURE  
WATER  
PHOENIX**

# CITY OF PHOENIX ADVANCED PURIFIED WATER

Maxwell Wilson, PhD

Water Resources Management Advisor  
City of Phoenix



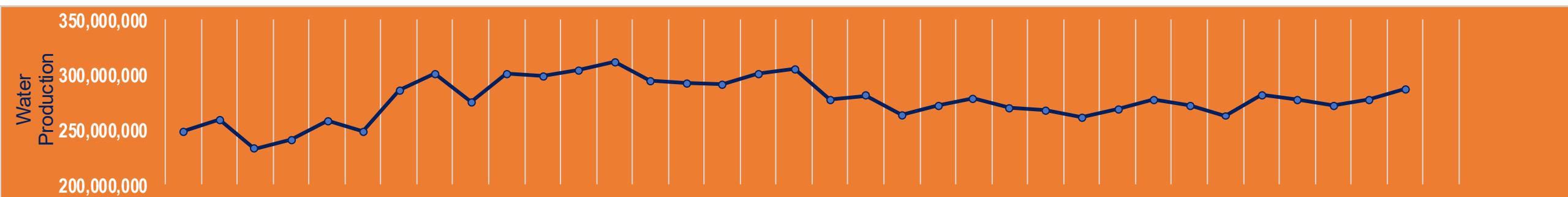
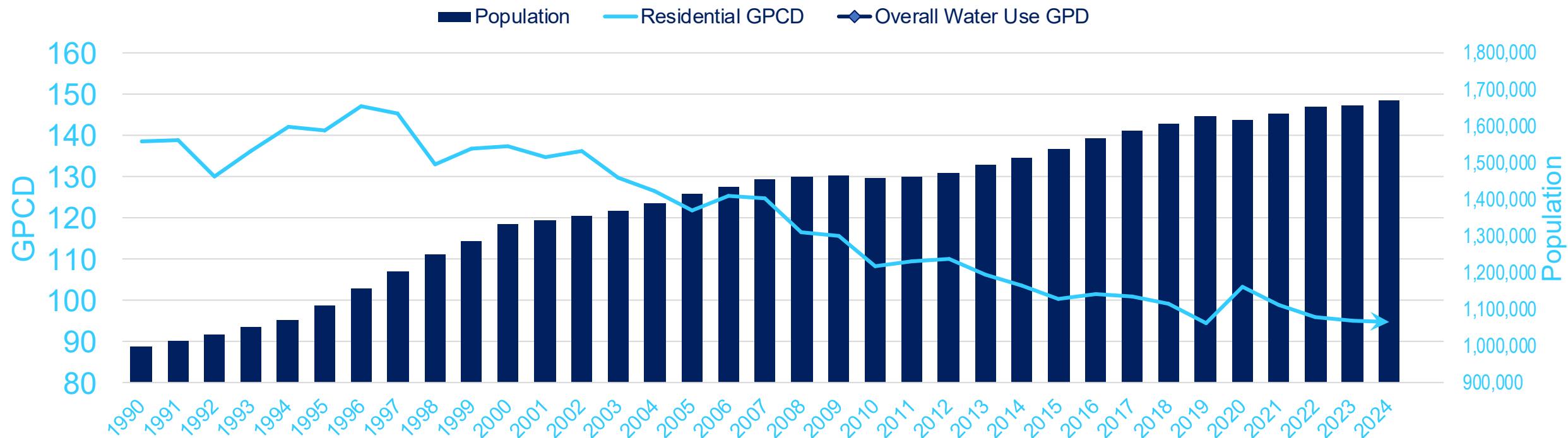
# Phoenix Water Supply

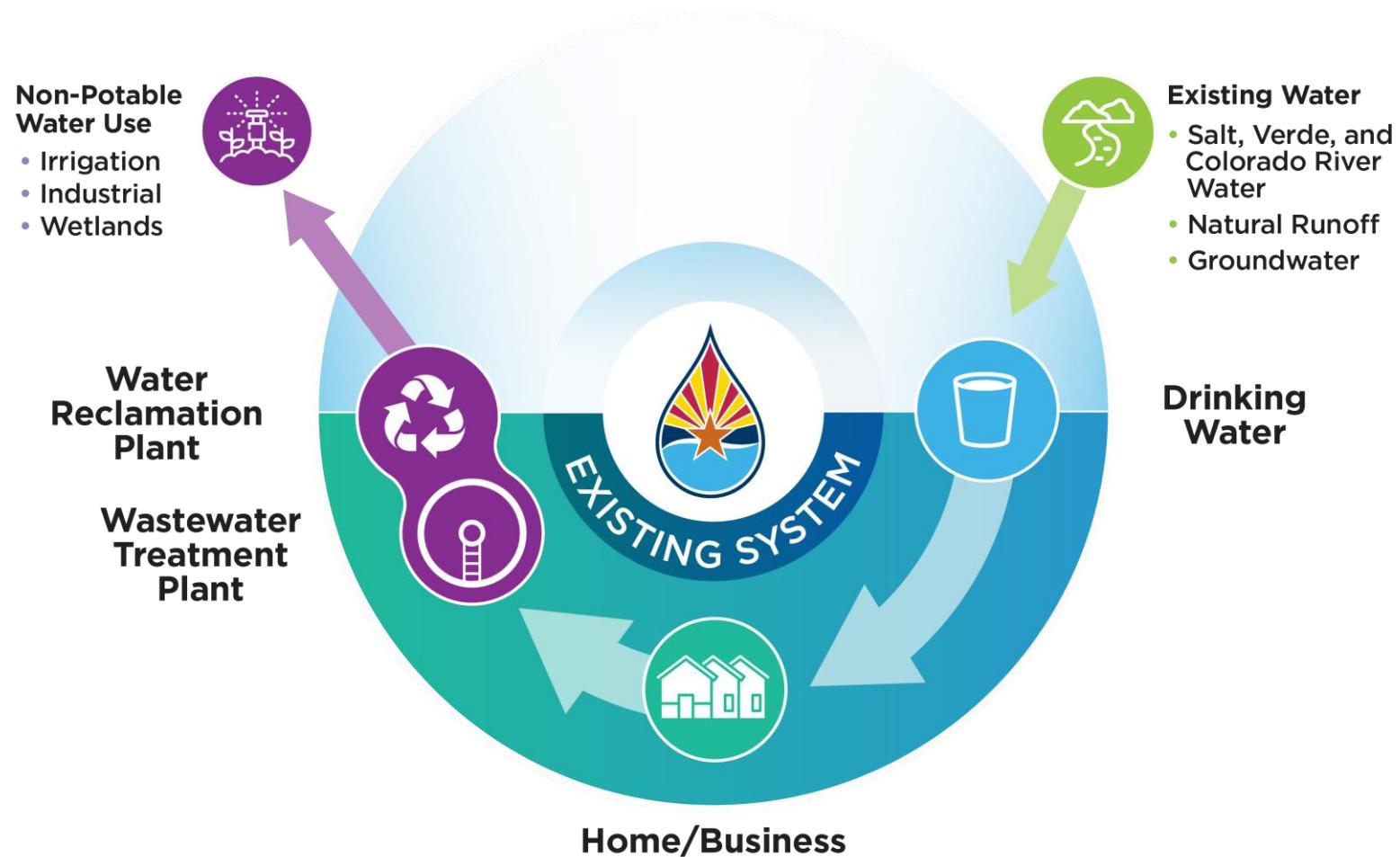
WHERE DOES  
PHOENIX'S  
WATER COME  
FROM?

# PHOENIX CONSERVATION 1990-2024



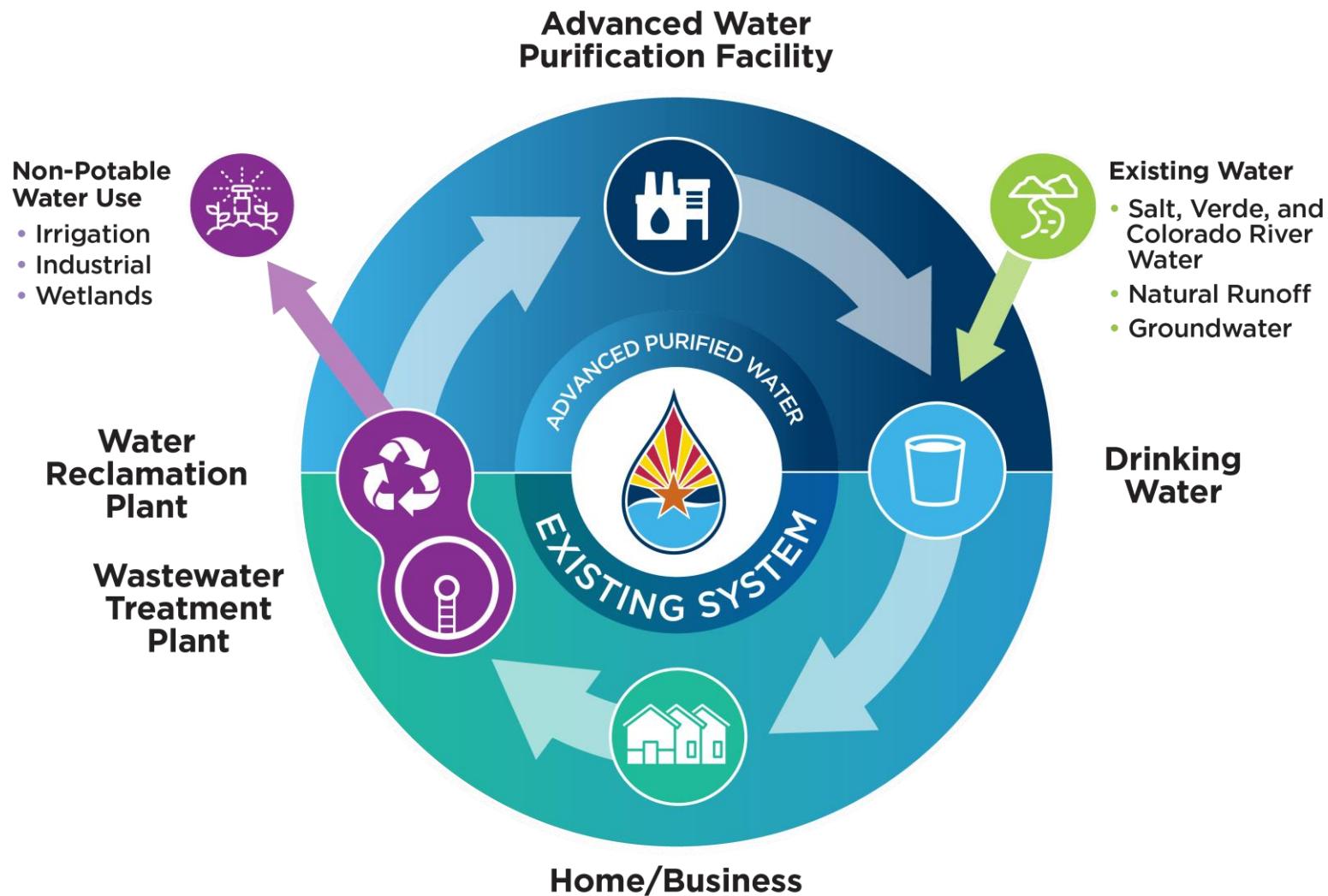
## Population and Residential Water Use in Gallons Per Capita Per Day (GPCD)





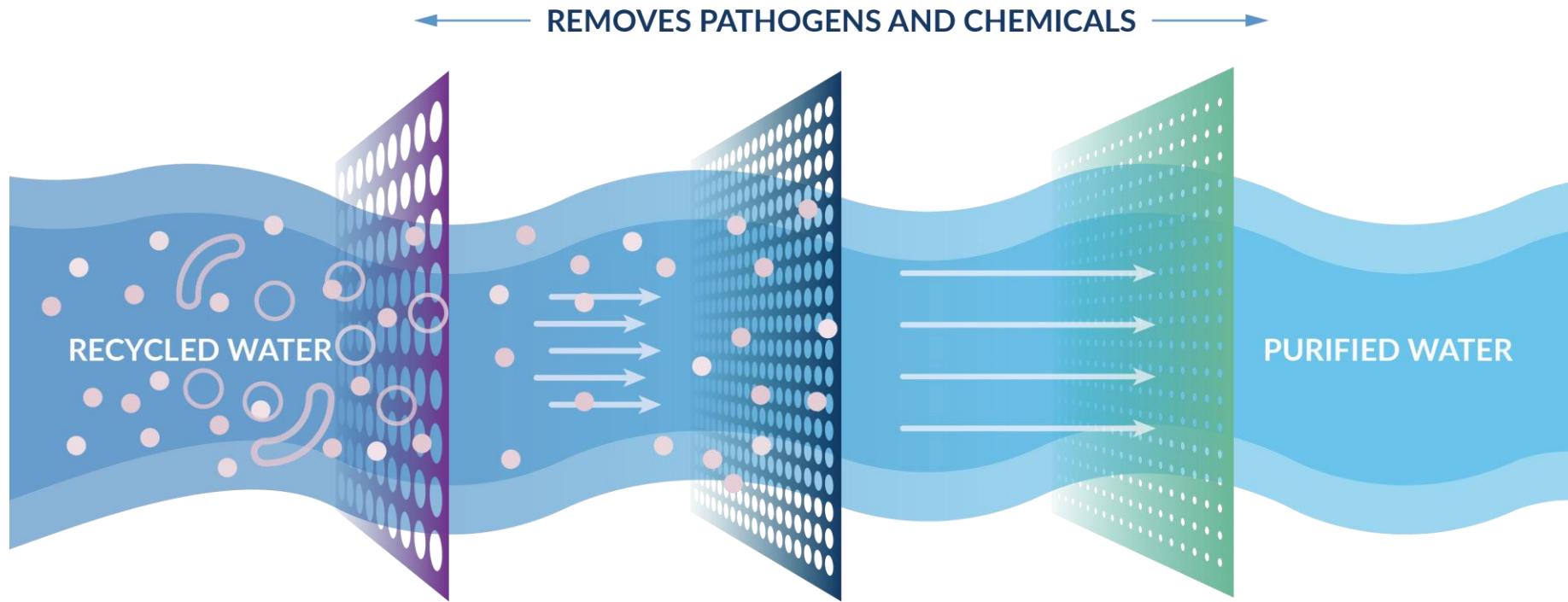
# PHOENIX'S EXISTING REUSE SYSTEM

## DELIVERS NON-POTABLE REUSE



# ADVANCED TECHNOLOGY COMPLETES THE WATER CYCLE

# 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

# Who Else is Using Advanced Purified Water in the U.S.



*Data for the map courtesy of Water Services Association of Australia in collaboration with WateReuse Association.*

## ARIZONA

- Phoenix
- Scottsdale

## CALIFORNIA

- Alameda County
- Antelope Valley
- Burbank
- Cambria
- Camp Pendleton
- Carpinteria
- Central Coast
- Conejo Valley
- East San Diego County
- El Segundo
- Highland
- Inland Empire
- Laguna County
- Long Beach
- Los Angeles
- Monterey
- Morro Bay
- Oceanside
- Orange County
- Pico Rivera
- Pure Water Southern CA
- Rancho California
- San Diego
- San Francisco
- San Jacinto
- Santa Clara County
- Santa Monica
- South Orange County
- Santa Cruz County
- Tri-Valley
- Ventura
- Yucaipa

## CANADA

- Québec City

## COLORADO

- Aurora
- Castle Rock
- Colorado Springs

## FLORIDA

- Altamonte Springs
- Clay County
- Clearwater
- Hillsborough County
- Jacksonville
- Palm Beach County
- Plant City
- Polk County

## UTAH

- South Jordan

## VIRGINIA

- Hampton Roads
- Loudoun County
- Upper Occoquan

## GEORGIA

- Clayton County
- Gwinnett County

## MARYLAND

- Anne Arundel County
- Westminster

## MONTANA

- Big Sky

## NEVADA

- Reno

## NEW MEXICO

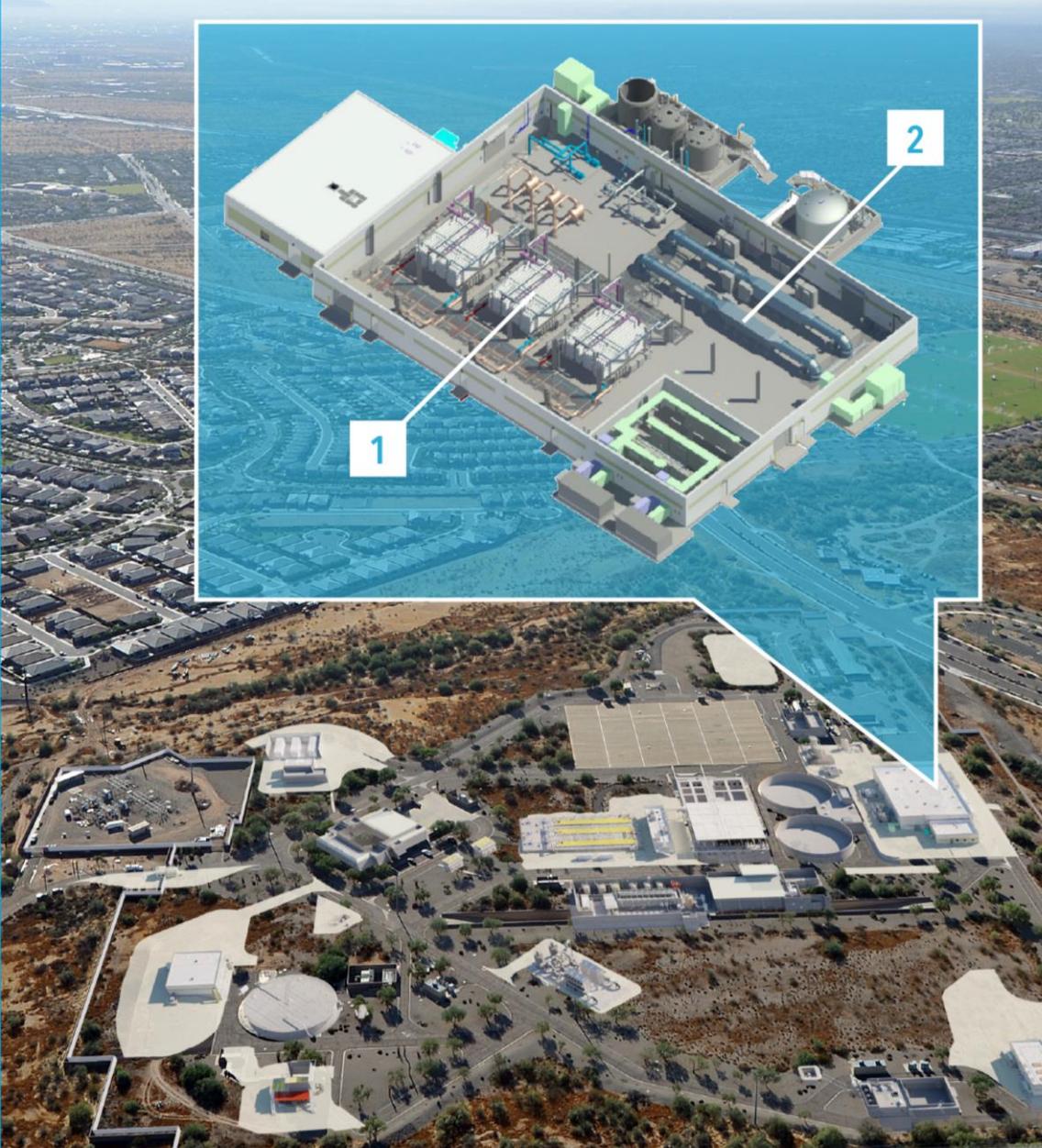
- Cloudcroft

## OKLAHOMA

- Bartlesville
- Norman

## OREGON

- Washington County



(1) Reverse Osmosis and (2) UV Advanced Oxidation technologies.

# PURE WATER PHOENIX AT CAVE CREEK

## ADDING AN ADVANCED WATER PURIFICATION FACILITY TO THE CCWRP SITE

- Purified water initially added to groundwater supplies
- In the future, the purified water may be conveyed to the drinking water system
- Production
  - Initial – 6.75 MGD (8 MGD capacity)
  - Build-out – 13.5 MGD (16 MGD capacity)

# PHOENIX ADVANCED WATER PURIFICATION FACILITIES TIMELINE



ADVANCED WATER PURIFICATION IS A  
TECHNOLOGY OF TODAY NOT TOMORROW

# LEARN MORE ABOUT ADVANCED PURIFIED WATER



To learn about advanced purified water in your community, visit the City of Phoenix's Water Services Department website:



[phoenix.gov/apw](http://phoenix.gov/apw)

[watersmart@phoenix.gov](mailto:watersmart@phoenix.gov)



The WaterReuse Association focuses on advancing laws, policy and funding to increase water reuse and provides educational information about water reuse.

[watereuse.org/educate](http://watereuse.org/educate)

