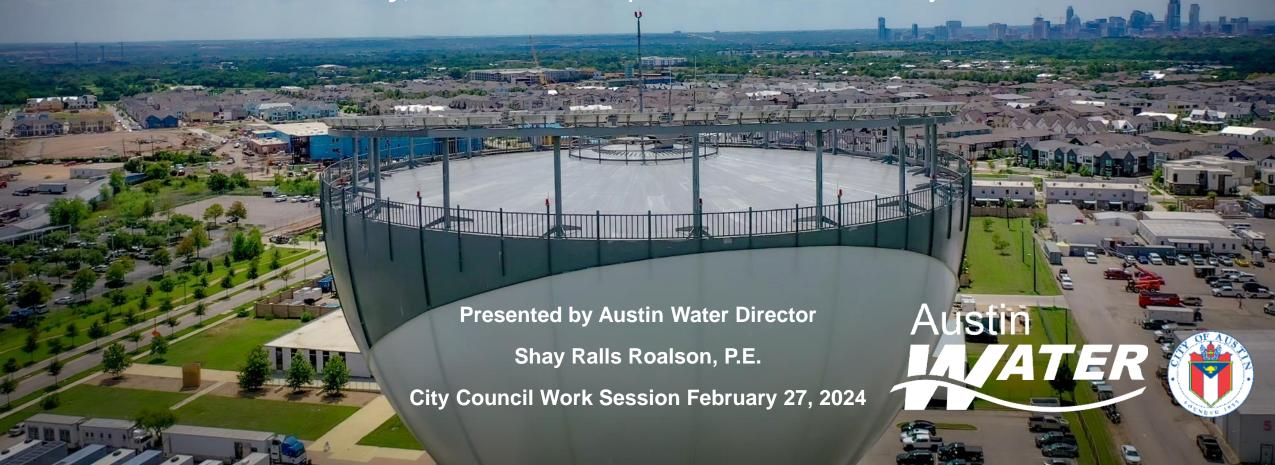


## REUSE STRATEGIES

One City, One Water: A plan for the next 100 years



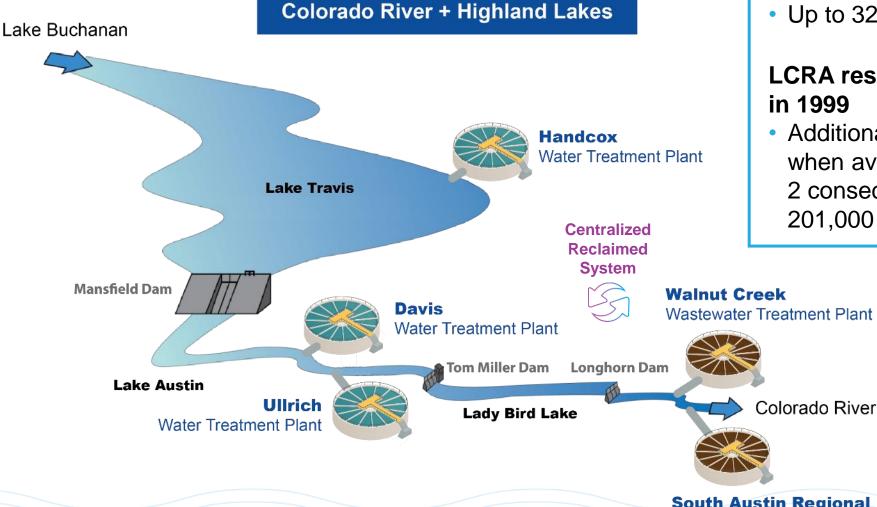


## Water Forward

Water Forward is Austin's 100-year integrated water resource plan, unanimously adopted by Council in November 2018. Water Forward identifies diverse and environmentally conscious water management strategies to adapt to growth, drought, and climate change and ensure a sustainable, resilient, equitable, and affordable water future for our community.



### **Austin's Water**



#### **Colorado River:**

- Combination of State-granted water rights & long-term contract with LCRA
- Up to 325,000 acre-feet per year (afy)

### LCRA reservation & use fees pre-paid in 1999

 Additional use payments trigger when average for 2 consecutive years exceeds 201,000 afy



## Water Forward Guiding Principles

Water Forward is updated on a 5-year cycle. The updated plan will be submitted for Council Approval in November 2024.

Resiliency

Inclusive approach + Community values

Diverse strategies

Equity + Affordability

Protect the Colorado River

Reduce operational risks

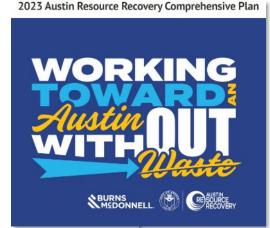
Focus on local supplies

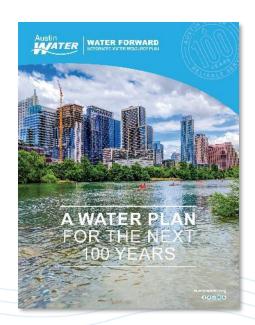


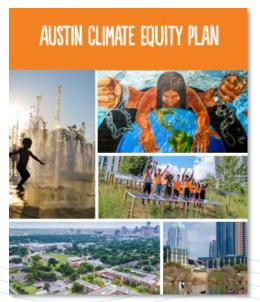
## WATER FORWARD One City One Water One Approach

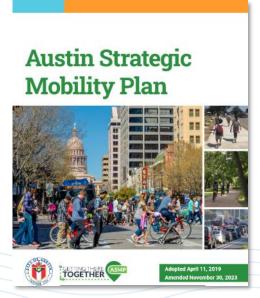
- Environmental Sustainability & Climate Equity
- Affordability
- Reliability & Resiliency

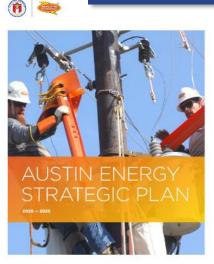






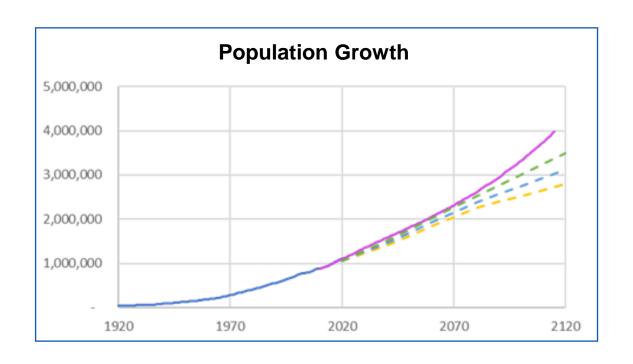


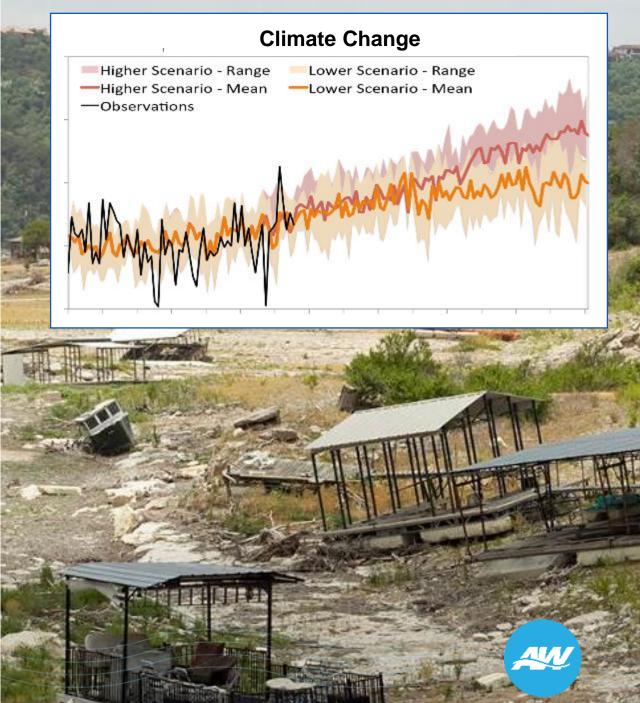






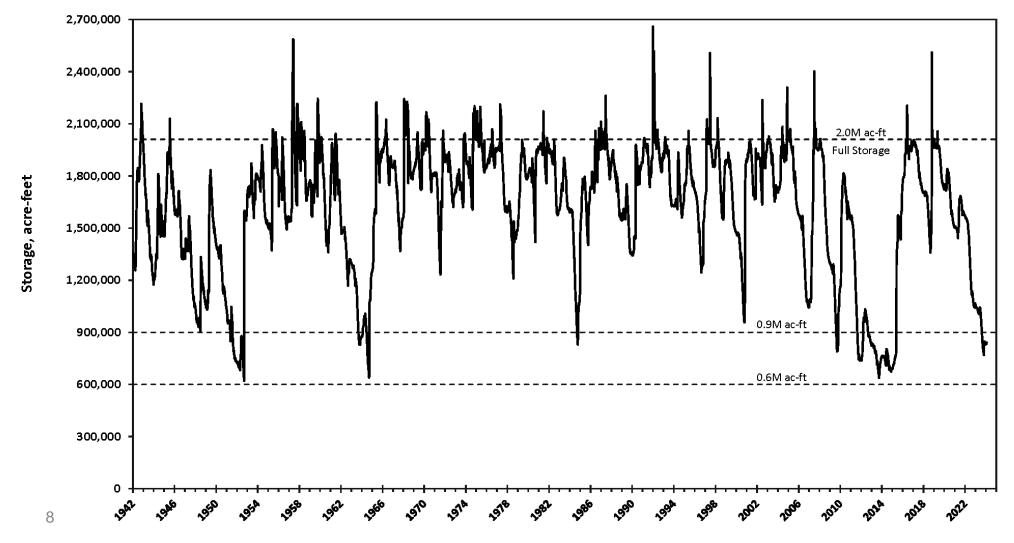
## Planning for Uncertainty





## Combined Storage

Lakes Buchanan and Travis





## Water Forward Strategies











Supply



**Partnerships** 



## Why Now? Why Reuse?

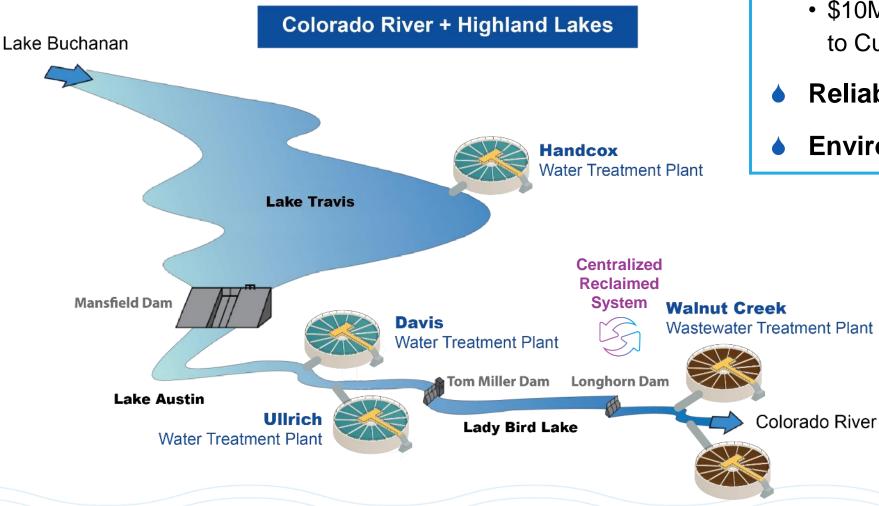








### Value of Reuse



#### Affordability

South Austin Regional
Wastewater Treatment Plant

- \$10M+ Annual Cost Savings to Customers
- Reliability & Resiliency
- Environmental Sustainability



## AW & COA Leading the Way

Advancing Reuse

- Central Library
- Permitting & Development Center
- Austin Energy Headquarters
- Other Developments
  - Austin Peace Academy
  - Waterloo Park Restrooms
  - Mueller Visitor Center
  - Travis County Community Center







# Water Forward Reuse & Conservation Implementation Highlights



- ✓ Onsite Water Reuse System (OWRS) regulatory framework and incentive approved by Council
- ✓ New Voluntary Reclaimed Water Connection incentive developed



✓ Water benchmarking, onsite water reuse, and extension of reclaimed water connection requirements approved by Council



### Investments to Advance Reuse



Walnut Creek WWTP Reclaimed Water Initiative Phase 1A&B Central Zone Projects

51st Street Tank

**Bulk Fill Stations** 

Montopolis Tank & Pump Station

Planning and Development Center On-Site Reclamation Facility South Austin Regional WWTP Pump Station

Walnut Creek WWTP
Metering

Surge Analysis

Indirect Potable Reuse Planning

Decentralized WWTPs
Design Criteria

Montopolis Elevated Storage Tank

1995

2005

2015

2025

2035

\$100 million

\$94 million

\$203 million

#### **Reclaimed Water Mains**

Montopolis
Downtown
Capital Complex
Red River
University of Texas
Austin-Bergstrom Airport

#### **Reclaimed Water Mains**

Decker Lane
Onion Creek District Park
Krieg Fields
Seaholm Street

#### **Reclaimed Water Mains**

Onion Creek
Oltorf Street
South 1st Street
West Riverside
ABIA North Loop
3rd St: Guadalupe to Nueces

#### **Reclaimed Water Mains**

Travis County Courthouse SAR WWTP to SH71 8<sup>th</sup> St: Congress to West

Lake and Rattan Area Planning

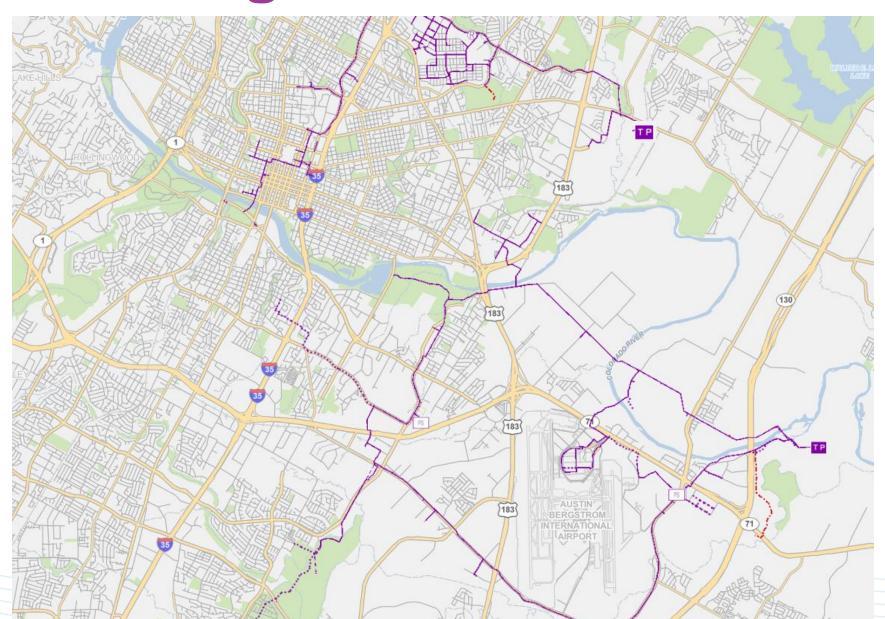
#### **Reclaimed Water Mains**

SH71 to US183 SH71 to Lady Bird Lake Downtown Toomey Road



## Advancing Reuse across Austin







## Reuse Strategies



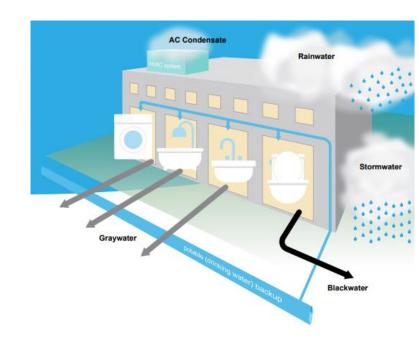
- ♦ New Affordability Incentives
  Incentives to support expansion and adoption of reuse strategies
- ◆ Reclaimed Water System
  Expanding AW's centralized reclaimed water system
- **♦ Community-scale Reclaimed Water**Localized treatment facilities and distribution systems
- ◆Onsite Water Capture and Reuse
  Commercial and multifamily rainwater, stormwater, graywater, and air conditioning condensate



## Addressing Affordability Advancing Reuse



- Incentives and grants for reuse and conservation
- Reduced monthly fixed charges
- Expedited building permit review process
- Low interest loan program
- Cost sharing
- ◆ Travis County PACE Loan Program





## Funding Strategies Advancing Reuse



#### Community Benefit Charge (CBC)

 Add an extra \$0.15 per thousand gallons to AW's CBC to fund reclaimed water system expansion and onsite reuse programs

#### OWRS Alternative Fee

Large developments greater than 500 feet from centralized reclaimed will install dual plumbing and pay
a fee to support reclaimed system expansion in place of implementing OWRS

#### Purple Choice and Purple Choice Plus

 Voluntary rate program for AW residential and commercial customers to fund reclaimed system expansion and programs

#### Excess Usage Fees

Fees applied when potable water allotments from Water Benchmarking are exceeded



Development Size	Current Requirements Effective 12/1/2021	Proposed Updates to Requirements Effective 4/1/2024
Small <250,000 square feet	<ul> <li>Water Benchmarking</li> <li>Connect to centralized reclaimed water within 250 feet</li> </ul>	No Change
Large ≥250,000 square feet without multifamily	<ul> <li>Water Benchmarking</li> <li>Connect to centralized reclaimed water within 500 feet</li> </ul>	<ul> <li>Water Benchmarking</li> <li>Connect to centralized reclaimed water within 500 feet; or</li> <li>Install an onsite water reuse system</li> </ul>
Large ≥250,000 square feet with multifamily (Exclude projects accredited for Affordability Unlocked or State Low Income Housing Tax Credit)	<ul> <li>Water Benchmarking</li> <li>Connect to centralized reclaimed water within 250 feet</li> </ul>	<ul> <li>Water Benchmarking</li> <li>Connect to centralized reclaimed water within 500 feet; or</li> <li>Install an onsite water reuse system; or</li> <li>Install dual plumbing, make ready to connect to centralized reclaimed water, and pay a fee to support reclaimed system expansion, for developments greater than 500 feet from centralized reclaimed water</li> </ul>

## Key 2024 Activities Advancing Reuse



#### **March 7: PURPLE PIPE DAY!**

- Council considers Code changes for Onsite Water Reuse Systems and Reclaimed Water System Connections
- ◆ Council considers reauthorizing existing incentive program
- ◆ Council considers Community Benefit Charge increase (\$0.15 per thousand gallons) to fund Reclaimed Water System expansion and Onsite Reuse programs
- ◆ Council considers reclaimed water Interlocal Agreement with Travis County.

#### August

◆ Budget adoption, including new rates and incentives for reclaimed water system expansion



