



# **WATER FORWARD**

INTEGRATED WATER RESOURCE PLAN

Austin Integrated Water Resource Planning Community Task Force

Packet Index

January 7, 2019

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**Austin Integrated Water Resource Planning Community Task Force**  
**January 7, 2020 – 4:00 p.m.**  
**Waller Creek Center, Room 104**  
**625 East 10<sup>th</sup> Street**  
**Austin, Texas 78701**

**For more information go to:**  
**[Austin Integrated Water Resource Planning Community Task Force](#)**

## **AGENDA**

### **Voting Members:**

Sharlene Leurig - Chair	Perry Lorenz	Vanessa Puig-Williams
Jennifer Walker – Vice Chair	Robert Mace	Sarah Richards
Todd Bartee	Hani Michel	Lauren Ross
Diane Kennedy	Bill Moriarty	

### **Ex Officio Non-Voting Members:**

Austin Water: Greg Meszaros  
Austin Energy: Kathleen Garrett  
Austin Resource Recovery: Tony Davee  
Neighborhood Housing and Community Development: Josh Rudow  
Office of Innovation: Kerry O'Connor  
Office of Sustainability: Lucia Athens  
Parks and Recreation: Liana Kallivoka  
Watershed Protection: Mike Personett

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### **1. CALL TO ORDER – January 7, 2020 4:00 p.m.**

### **2. CITIZEN COMMUNICATION**

The first 10 speakers signed up prior to the meeting being called to order will each be allowed a three-minute allotment to address their concerns regarding items not posted on the agenda.

### **3. APPROVAL OF MEETING MINUTES**

- a. Approval of the meeting minutes from the November 5, 2019 Task Force meeting

**4. STAFF BRIEFINGS, PRESENTATIONS, AND OR REPORTS**

- a. Water Forward Implementation Progress and Outlook – City Staff
  - i. Task Force Questions and Discussion

**5. VOTING ITEMS FROM TASK FORCE**

**6. FUTURE AGENDA ITEMS**

**7. ADJOURN**

Note: Agenda item sequence and time durations noted above are subject to change.

The City of Austin is committed to compliance with the American with Disabilities Act. Reasonable modifications and equal access to communications will be provided upon request. Meeting locations are planned with wheelchair access. If requiring Sign Language Interpreters or alternative formats, please give notice at least 2 days (48 hours) before the meeting date. Please call Austin Integrated Water Resource Planning Community Task Force, at 512-972-0194, for additional information; TTY users route through Relay Texas at 711.

For more information on the Austin Integrated Water Resource Planning Community Task Force, please contact Marisa Flores Gonzalez at 512-972-0194.

# MINUTES



The Austin Integrated Water Resource Planning Community Task Force convened in a Regular Meeting on November 5, 2019 at Waller Creek Center, Conference Rm 104, 625 E 10<sup>th</sup> Street, in Austin, Texas.

**Members in Attendance:**

Sharlene Leurig - Chair	Bill Moriarty	Robert Mace
Jennifer Walker – Vice Chair	Hani Michel	Vanessa Puig-Williams
Sarah Richards	Lauren Ross	Todd Bartee
Diane Kennedy	Perry Lorenz	

**Ex-Officio Members in Attendance:**

Josh Rudow, Liana Kallivoka

**Staff in Attendance:**

Kevin Critendon, Teresa Lutes, Marisa Flores Gonzalez, Matt Cullen, Sarah Hoes, Rick Coronado, Helen Gerlach

**Additional Attendees:**

David Foster

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**1. CALL TO ORDER**

Chair Leurig called the meeting to order at 4:08 p.m.

**2. CITIZEN COMMUNICATION: GENERAL**

- a. David Foster of Clean Water Action spoke on Land Development Code changes and lead service line abatement approaches.

**3. APPROVAL OF MEETING MINUTES**

The meeting minutes from the September 3, 2019 Austin Integrated Water Resource Planning Community Task Force regular meeting were approved on Member Mace's motion and Member Michel's second with Members Bartee, Puig-Williams, and Ross abstaining for a final 7-0-3-1 vote.

**4. STAFF BRIEFINGS, PRESENTATIONS, AND/OR REPORTS**

- a. A staff update on ordinance development was provided by Marisa Flores Gonzalez, Austin Water. This was followed by Task Force discussion and input.
- b. A staff update on Advanced Metering Infrastructure and Lead Service Abatement was provided by Rick Coronado, Austin Water. This was followed by Task Force discussion and input.

**5. VOTING ITEMS FROM TASK FORCE**

- a. The 2020 Task Force meeting schedule was approved on Member Mace's motion and Member Moriarty's second, for a final 10-0-0-1 vote.

**6. ADJOURN**

Chair Leurig adjourned the meeting at approximately 5:56 pm.

# **PRESENTATION**





# **WATER FORWARD**

## INTEGRATED WATER RESOURCE PLAN

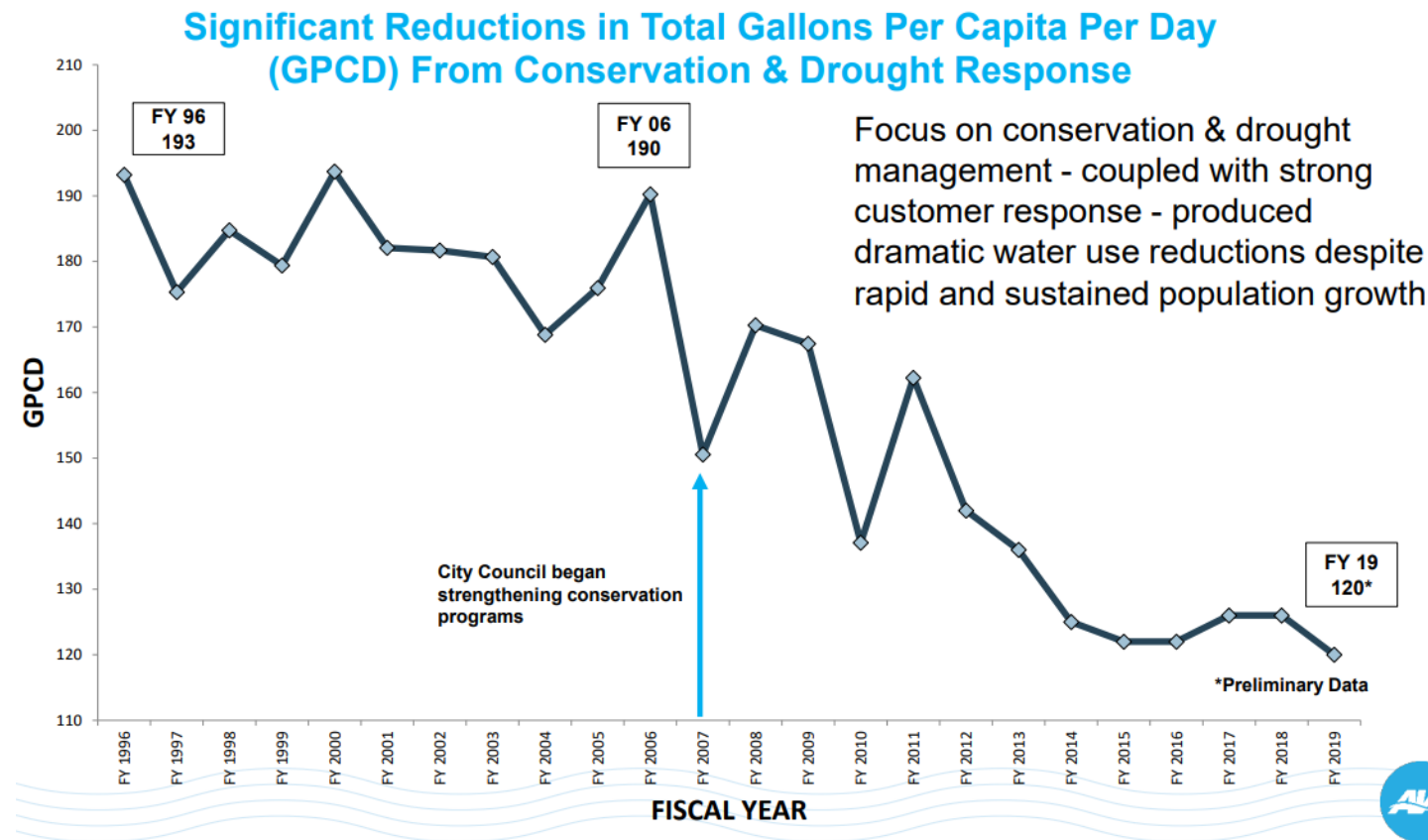


# **Water Forward Implementation Progress and Outlook**



# Water Use in 2019

- Total pumpage out of Davis, Ulrich, and Handox WTPs = 142,000 AF
- Reclaimed water use = 4,930 AF
- Annual GPCD = 120 gpcd
- Lowest GPCD for Austin since records were kept

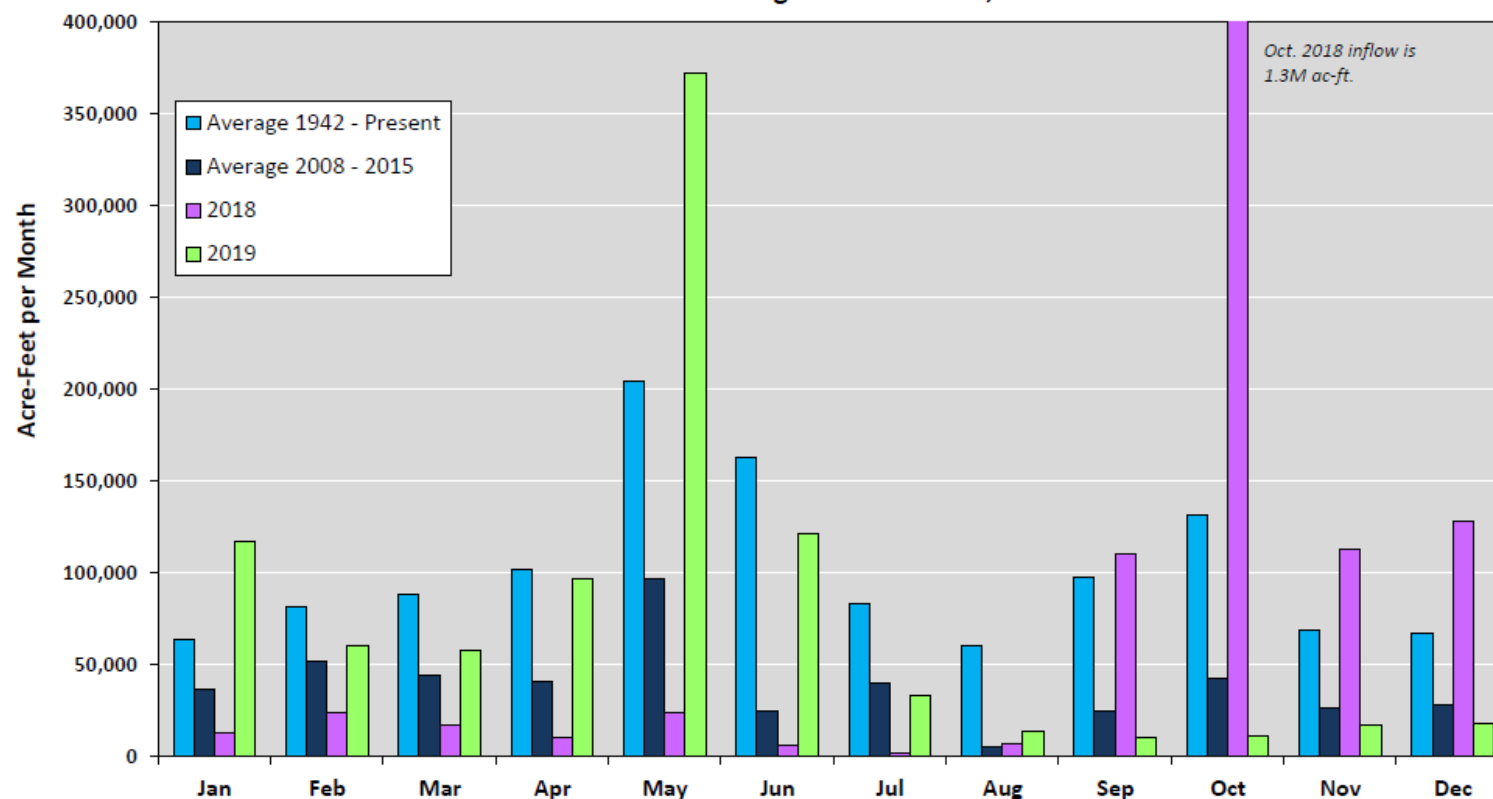


# Water Supply in 2019

- Approx. 930,000 ac-ft of lake inflows, with about 89% of the total occurring in the first 6 months
- 2019 was somewhat the reverse of 2018 which started very dry and ended very wet
- 2019 is ranked 30 of 78 in terms of calendar year inflows

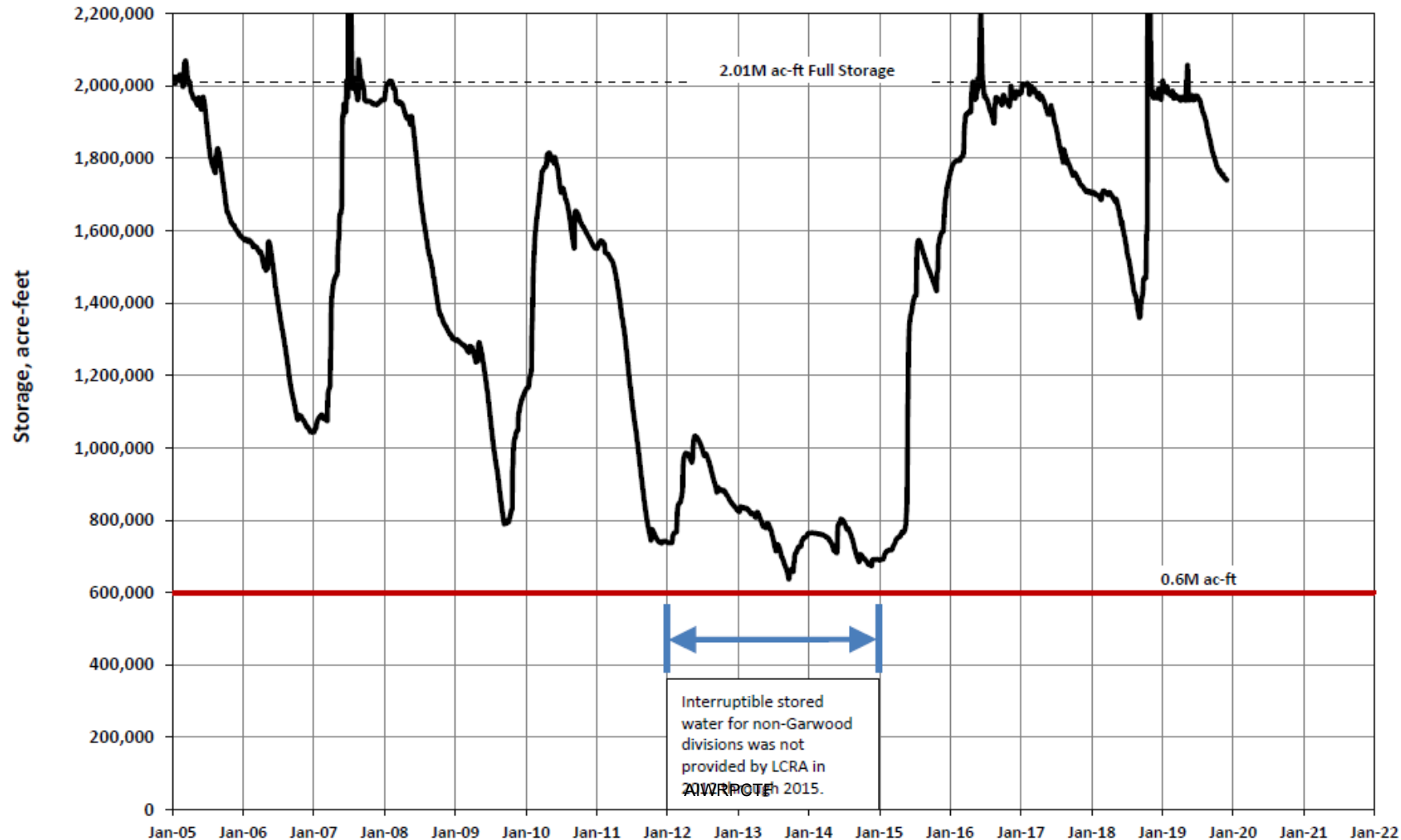
Monthly Inflows to Lakes Buchanan and Travis

Data through December 31, 2019



# Combined Storage of the Highland Lakes

Combined Storage of Lakes Buchanan and Travis  
January 1, 2005 through December 1, 2019



# Water Forward Implementation

## Reducing Demand

- Benchmarking
- Advanced Metering Infrastructure
- Water Loss Control
- Conservation Ordinances and Incentives

## Moving Reuse Forward

- Onsite Reuse
- Centralized and Decentralized Reclaimed

## Protecting our Core Colorado River Supplies

- Working with our Regional Partners

## Building Resiliency

- Aquifer Storage and Recovery

Continued Stakeholder Engagement

# Continued Stakeholder Engagement

Major efforts include two public stakeholder workshops and one open house held to discuss onsite reuse and other code changes

AW staff also attended numerous Land Development Code related workshops and public meetings

## 2019 Stakeholder Engagement Highlights

1/31/2019	Central Texas Water Conservation Symposium
3/27/2019	Water Now Alliance
3/12/2019	Water Forward Task Force Meeting
4/10/2019	Leadership Austin Engage Breakfast
4/18/2019	Texas State University Water Resources Planning Class
4/24/2019	Austin Monitor Interview
4/24/2018	Austin Contractors and Engineers Association
4/24/2019	National Adaptation Forum
5/2/2019	Freese and Nichols Brown Bag
5/7/2019	Water Forward Task Force Meeting
5/28/2019	Austin Bastrop-River Corridor Partnership Meeting
6/5/2019	Environmental and Water Resources Institute - Austin Chapter
6/18/2019	Texas Water Trade / Drenner Group / Lionheart Evening Event on On-Site Water Development
6/25/2019	AW Alternative On-Site Water Use Workshop
7/9/2019	Water Forward Task Force Meeting
7/19/2019	Foreign Press Center Visit to AW
7/23/2019	AW Alternative On-Site Water Use Workshop #2
8/22/2019	NSF Sustainable Urban Water Systems conference
8/28/2019	Austin Monitor Radio Interview
9/3/2019	Water Forward Task Force Meeting
9/17/2019	Barton Springs University
9/17/2019	KXAN Interview
10/3/2019	TAMU AWRA Meeting
10/16/2019	AW Water Forward Ordinance Open House #1
10/16/2019	AW Water Forward Ordinance Open House #2
10/21/2019	UT Environmental Science Professionalism Class
10/25/2019	Equity Action Team Meeting
11/5/2019	Water Forward Task Force Meeting
11/3/2019	Water Utility Climate Alliance Training
12/11/2019	Global Water Intelligence Interview



## Benchmarking

- Requirement that all new developments submitting a site plan also submit a water balance application included in Land Development Code (LDC) with anticipated Council adoption Spring 2020
  - Council approved LDC on first reading Dec. 9, 2019 ( 3 readings required for adoption)
  - Mid February Council 2<sup>nd</sup> Reading
  - Late March / Early April Council 3<sup>rd</sup> Reading
- June 2020 – water balance submittals begin, including in-person meetings for developments >250,000 SF

## Advanced Metering Infrastructure

- Purchasing phase nearing completion, entering into pilot phase
- City-wide implementation to last from 2020 through 2024



## Conservation Ordinances and Incentives

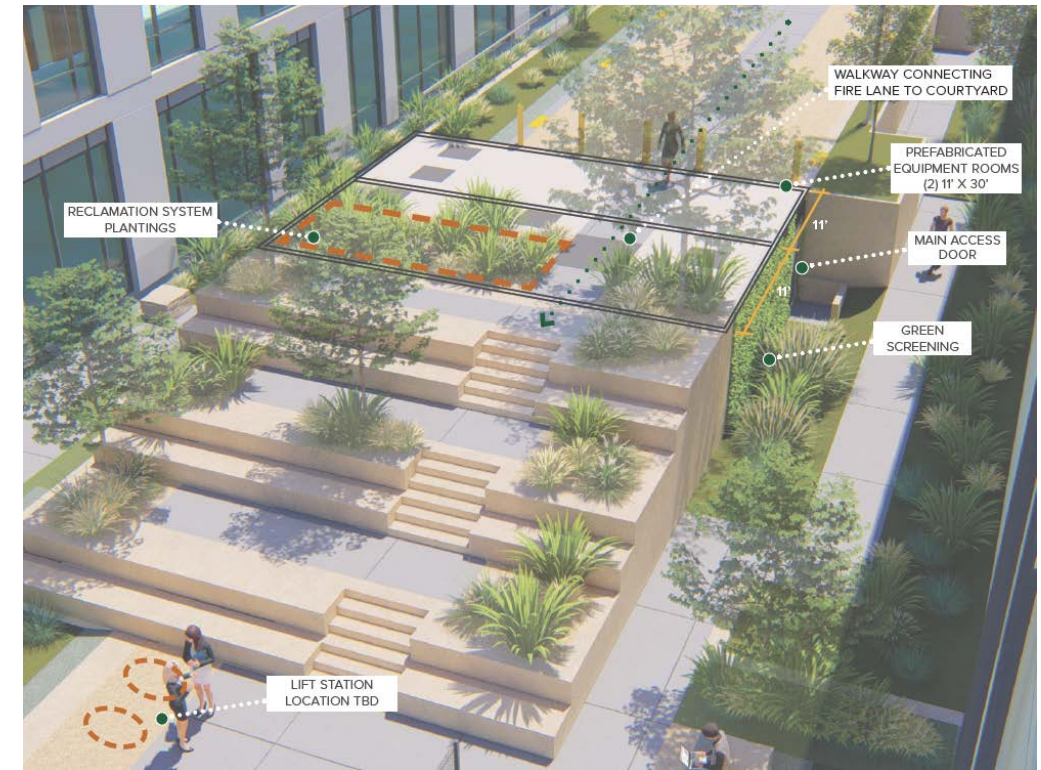
- Landscape Transformation Ordinances
  - Commercial landscape code currently included in LDC
- Conservation staff will be working in 2020 to move the following strategies forward (may include strategy development, stakeholder engagement, and implementation)
  - Cooling Tower Ordinance
  - Landscape Transformation Incentive
  - Irrigation Efficiency Incentive
  - Potentially Consolidated Alternative Water Incentives

## Water Loss Control

- AW continuing water loss control programs, including active leak detection, improving response time to leaks, pressure management, and pipeline condition assessment and renewal
- Utility bringing on a consultant to validate water treatment plant meters
- AW staff will continue to study system water loss and developing strategies to reduce real losses using new data analytics approaches

## Onsite Water Reuse

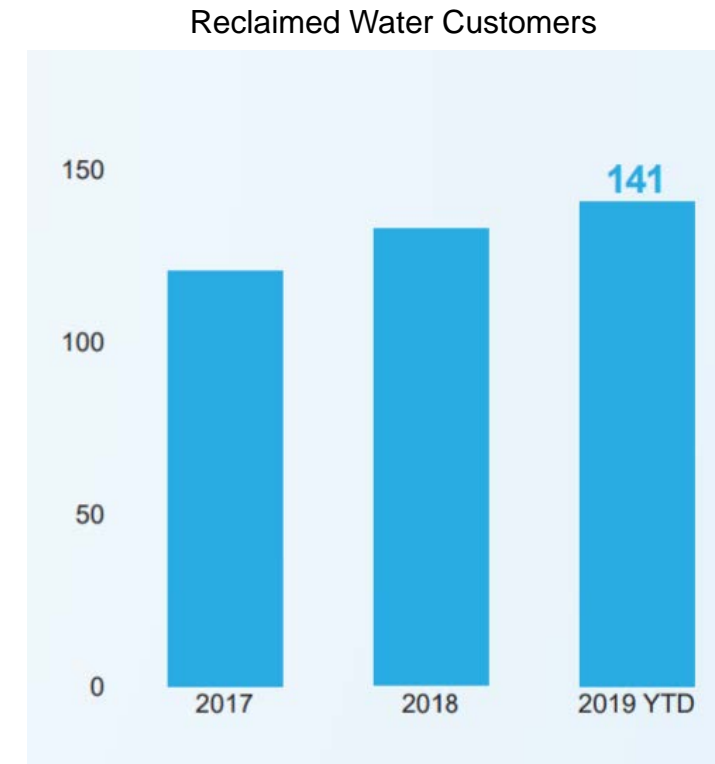
- Planning and Development Center Onsite Reuse Pilot
- Ordinance language included in LDC changes
  - First reading approved by Council included amendment language directing staff to consider code enhancements that could increase beneficial use of stormwater and report possible affordability impacts back to Council
- Major 2020 efforts will include onsite water regulatory program development and incentive program development





## Centralized and Decentralized Reclaimed

- Ordinance changes included in LDC changes – Expansion of reclaimed connection requirements for new developments >250,000 SF
- Furthering reclaimed water use in Planned Unit Development negotiations
- Centralized Reclaimed Master Plan Update planned for 2020
- Working towards identifying opportunities for decentralized (community-scale) reclaimed



Reclaimed 2019 water use = 4,930 AF

## Working with our Regional Partners

- Lower Colorado River Regional Water Planning Group participation
- City of Austin - Lower Colorado River Authority (LCRA) Water Partnership
- LCRA Water Management Plan update process participation
- Imagine Austin Sustainably Manage our Water Resources priority program
  - Co-led by Austin Water and the Watershed Protection Department
- Water Utility Climate Alliance participation



## Aquifer Storage and Recovery

- Hosted Aquifer Storage and Recovery Technical Advisory Group August 2019
- Planning to host Aquifer Storage and Recovery Technical Advisory Group meeting in Spring 2020
- Issued ASR Pilot and Program Management Consultant RFQ November 2019
  - Currently in no contact period
  - Questions regarding RFQ should be directed to RFQ points of contact
- Anticipated to have consultant team on board in Summer 2020

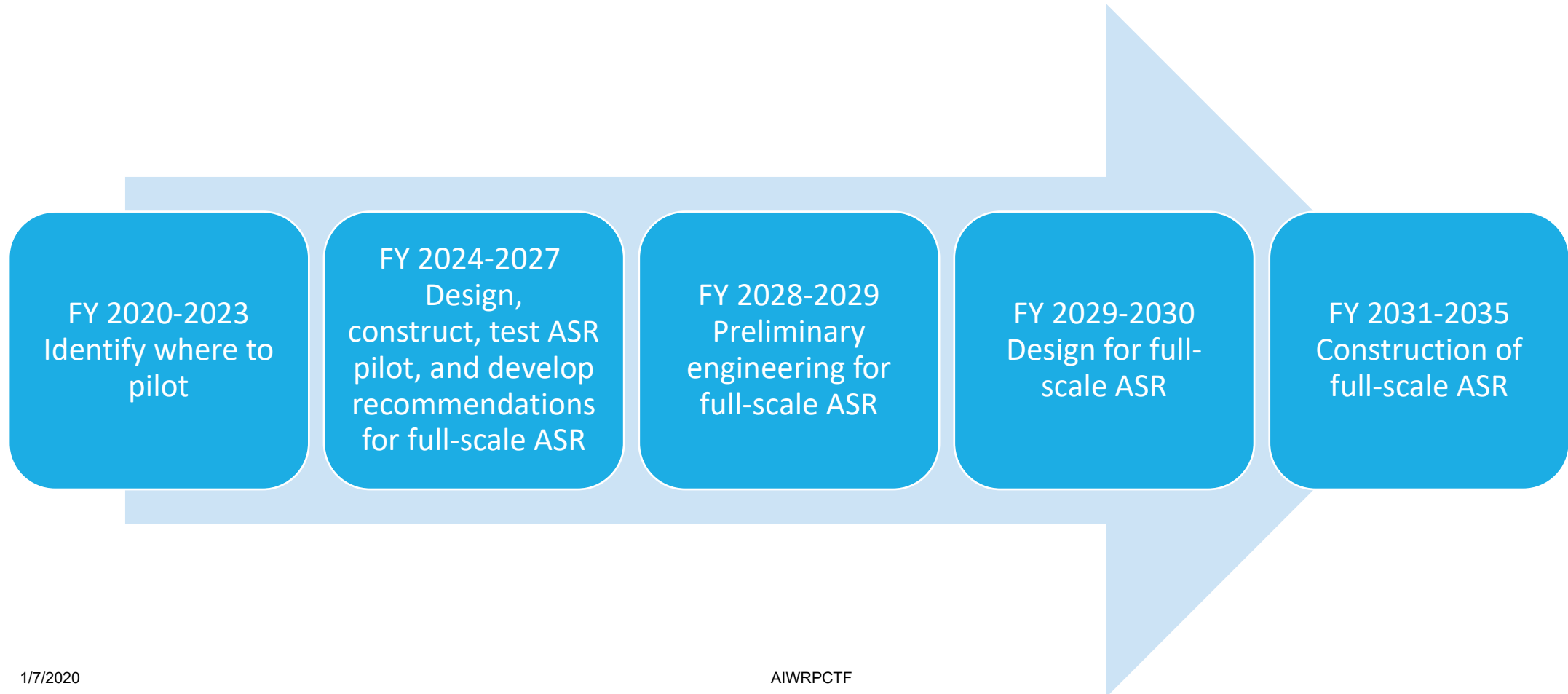
### RFQ Points of Contact

Helen Gerlach, Austin Water

Michael Williams,  
Capital Contracting  
Office

Kenneth Kalu, Small  
and Minority Business  
Resources

## Aquifer Storage and Recovery



# Related Actions

- Lead Service Abatement
  - Austin Water planning to use in-house resources to complete the lead service inventory
  - This work will be phased prior to deployment of AMI and in alignment with updated EPA Lead and Copper rules
  - Task Force subcommittee to meet regularly with utility staff for progress updates



# Questions and Discussion

A photograph of a water treatment facility with large blue and green pipes, valves, and machinery. A semi-transparent blue banner is overlaid across the middle of the image.

# Thank you

1/7/2020

