

Austin Integrated Water Resource Planning Community Task Force

Packet Index

April 11, 2017

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Austin Integrated Water Resource Planning Community Task Force April 11, 2017 – 6:00 p.m. Waller Creek Center, Room 104 625 East 10th Street Austin, Texas 78701

For more information go to: <u>Austin Integrated Water Resource Planning Community Task Force</u>

AGENDA

Voting Members:

Sharlene Leurig - Chair Jennifer Walker – Vice Chair Todd Bartee Clint Dawson Marianne Dwight Diane Kennedy Perry Lorenz Bill Moriarty Sarah Richards Lauren Ross Robert Mace

Ex Officio Non-Voting Members: Austin Water: Greg Meszaros Austin Energy: Kathleen Garrett Austin Resource Recovery: Sam Angoori Neighborhood Housing and Community Development: Rebecca Giello Office of Innovation: Kerry O'Connor Office of Sustainability: Lucia Athens Parks and Recreation: Sara Hensley Watershed Protection: Mike Personett

1. CALL TO ORDER – April 11, 2017, 6:00 p.m.

2. CITIZEN COMMUNICATION

The first 10 speakers signed up prior to the meeting being called to order will each be allowed a threeminute 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 March 7, 2017 Task Force meeting (5 minutes)

Austin Integrated Water Resource Planning Community Task Force Regular Meeting April 11, 2017

4. STAFF BRIEFINGS, PRESENTATIONS, AND OR REPORTS

a. Demographic Follow-Up Presentation – City Staff (30 minutes)

Task Force Discussion and Input

b. Near Term Schedule and Process – City Staff (20 minutes)

Task Force Discussion and Input

c. Public Outreach Update – City Staff (30 minutes)

Task Force Discussion and Input

d. Water Supply Options Update – City Staff (10 minutes)

Task Force Discussion and Input

5. SUBCOMMITTEE REPORTS

6. VOTING ITEMS FROM TASK FORCE

7. FUTURE AGENDA ITEMS

8. 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 March 07, 2017 at Waller Creek Center, Conference Rm 104, 625 E 10th Street, in Austin, Texas.

Members in Attendance:

Sharlene Leurig - Chair Jennifer Walker – Vice Chair Todd Bartee Diane Kennedy Perry Lorenz Robert Mace Bill Moriarty Lauren Ross Clint Dawson

Ex-Officio Members in Attendance:

Greg Mezaros, Mike Personett

Staff in Attendance:

Kevin Critendon, Daryl Slusher, Teresa Lutes, Joe Smith, Marisa Flores Gonzalez, Mark Jordan, Ginny Guerrero, Prachi Patel, Katherine Jashinski, Jeff Fox, Chris Herrington

Additional Attendees:

John Burke, Ron Anderson, Susan Roth, Tina Petersen, Peter Mayer, Sue Morea, Bill Bunch, Michelle Camp, Lyde Creus Molanphy, Daniel, Alvarado, Jay Banner, Ryan Heicher

1. CALL TO ORDER

Sharlene Leurig, Chair, called the meeting to order at 6:05 p.m.

2. CITIZEN COMMUNICATION: GENERAL

Michelle Camp of WaterSmart Software spoke in relation to a purchasing matter.

3. APPROVAL OF MEETING MINUTES

The meeting minutes from the February 7, 2017 Austin Integrated Water Resource Planning Community Task Force regular meeting were approved on Member Walker's motion and Member Dawson's second on a 7-0-2-2 vote with Members Lorenz and Richards absent.

4. STAFF BRIEFINGS, PRESENTATIONS, AND/OR REPORTS

- a. Presentation on Screened Demand Management Options, Screening Assumptions, and Resulting Ten Options For Characterization was provided by Peter Mayer, Water DM. This briefing was followed by a Task Force discussion including questions and answers.
- b. Presentation on List of 22 Water Supply Options to be Screened was provided by Marisa Flores Gonzalez, Senior Planner, Austin Water. This briefing was followed by a Task Force discussion including questions and answers.

5. SUBCOMMITTEE REPORTS None

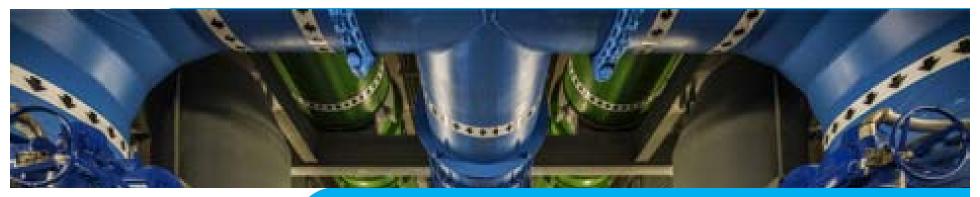
6. VOTING ITEMS FROM TASK FORCE None

10. FUTURE AGENDA ITEMS

None

Chair Leurig adjourned the meeting at 8:20 pm.

PRESENTATION





Water Forward – Austin's Integrated Water Resource Plan April 11, 2017



<u>Outline</u>

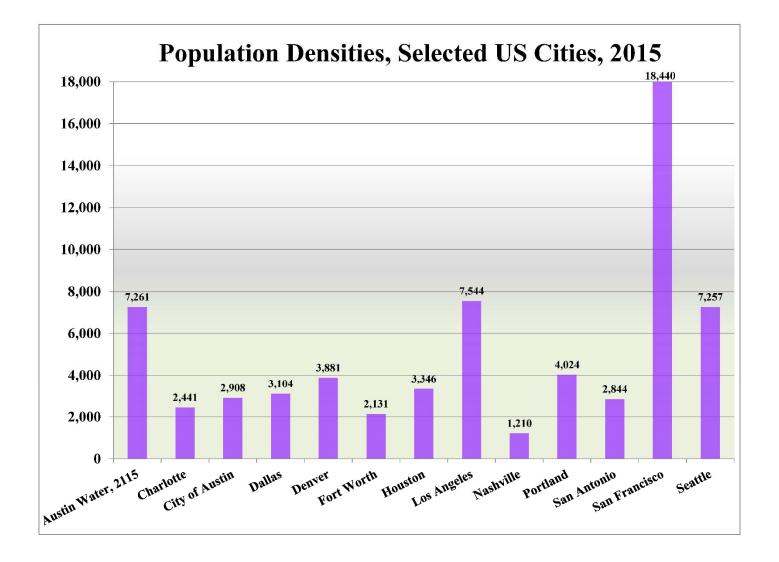
Austin

- Demographic Follow-Up Presentation
- Near Term Schedule and Process
- Public Outreach Update
- Water Supply Options Update



April 11, 2017

Demographic Follow-Up Presentation



Austin

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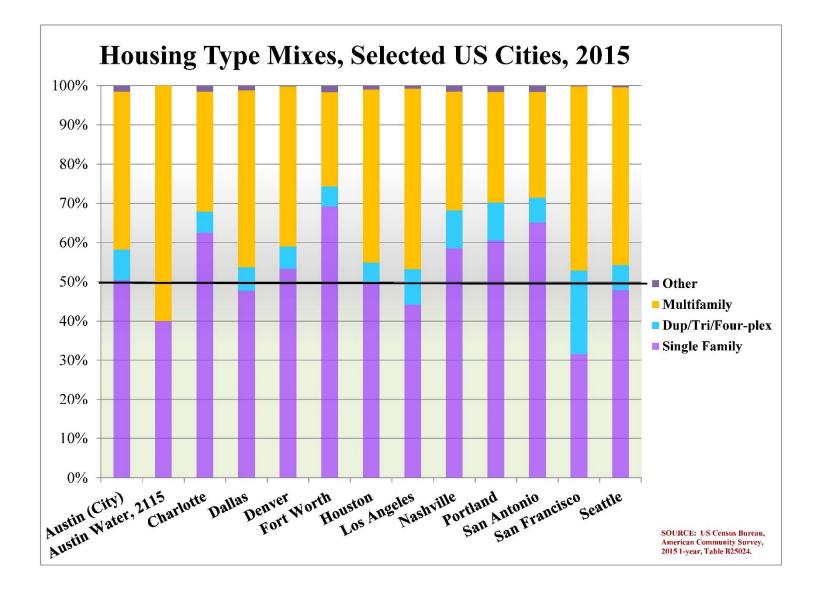
City of Austin Population History*				
		Annualized		
	Total	Growth		
Year	Population	Rate		
1900	22,258			
1905	25,299	2.6%		
1910	29,860	3.4%		
1915	32,870	1.9%		
1920	34,876	1.2%		
1925	47,647	6.4%		
1930	53,120	2.2%		
1935	63,563	3.7%		
1940	87,930	6.7%		
1945	105,742	3.8%		
1950	132,459	4.6%		
1955	154,093	3.1%		
1960	186,545	3.9%		
1965	214,117	2.8%		
1970	251,808	3.3%		
1975	302,500	3.7%		
1980	345,890	2.7%		
1985	417,033	3.8%		
1990	465,622	2.2%		
1995	526,128	2.5%		
2000	656,562	4.5%		
2005	700,407	1.3%		
2010	790,390	2.4%		
2015	900,701	2.6%		

TWDB Projections

- TWDB annualized growth rates for Austin Water Service Area projections are less than 1% beyond 2040
- Over the past 100 years Austin's annualized population growth rates have generally not been below 1.2%

Comp	Comparing Population Projections for Austin's Water Service Area						
	TWDB Projecti Pla	-	City of Austin	Projection			
Year	Austin Water Service Area	Annualized Growth Rate	Austin Water Service Area	Annualized Growth Rate			
2010	875,936		875,936				
2020	1,092,586	2.2%	1,101,632	2.3%			
2030	1,252,021	1.4%	1,342,884	2.0%			
2040	1,427,484	1.3%	1,577,760	1.6%			
2050	1,561,354	0.9%	1,808,586	1.4%			
2060	1,679,087	0.7%	2,051,178	1.3%			
2070	1,819,665	0.8%	2,314,769	1.2%			
2080			2,610,656	1.2%			
2090			2,944,366	1.2%			
2100			3,320,732	1.2%			
2110			3,745,208	1.2%			
2115			3,977,380	1.2%			

* City of Austin Population History in this table does not include additional areas served by Austin Water outside of the city limits.



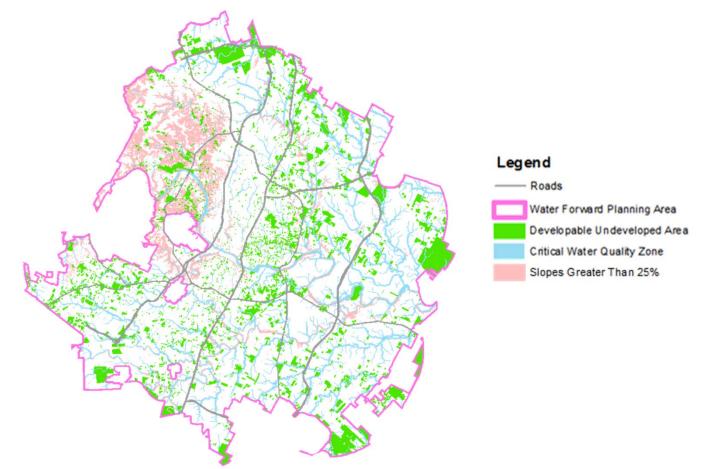
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Undeveloped Area Within the Water Forward Planning Area

Undeveloped Area outside of Critical Water Quality Zones and with slopes of less than 25%							
Commercial	Total						
2,544 ac	1,001 ac	5,332 ac	4,672 ac	13,788 ac	27,336 acres		
9%	4%	20%	17%	50%			



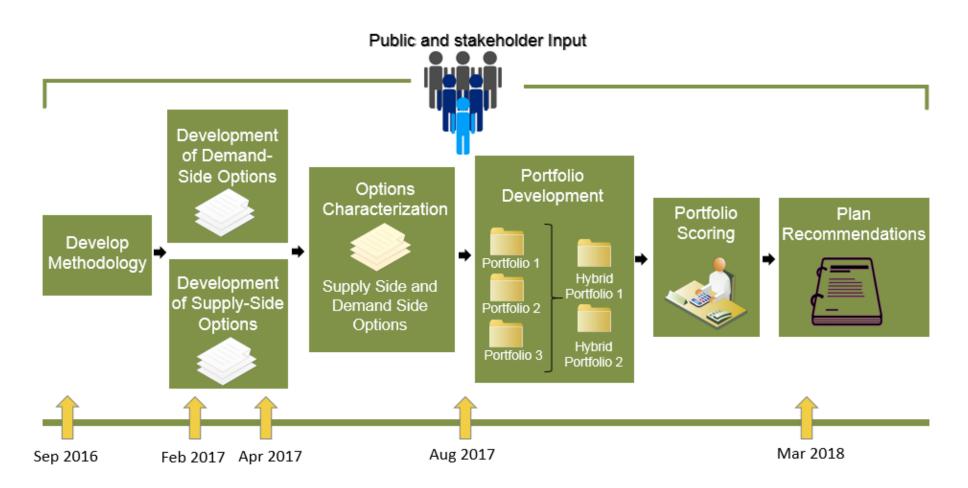


April 11, 2017

Near Term Schedule and Process



IWRP Development Process



Key Public Input Opportunities

AIWRPCTF



	2017 Upcoming Key Dates					
Apr. 18 th	Task Force meeting	Presentation on Task 6.3 geospatial analysis of decentralized options				
April 27 th	Deadline	Task Force feedback due on objectives weighting survey				
May 2 nd	Task Force meeting	Presentation on characterized 10 demand management options Review results of objectives weighting survey				
Jun. 6 th	Task Force meeting	Presentation on screening from 22 to 10 supply options				
Jun. 12 th	Deadline	Task Force feedback received on screened list of 10 supply options				
Jun. 19 th	Deadline	AW delivers final list of 10 supply options to consultant				
Aug. 15 th	Public Workshop #3	Tentative Date – Location TBD				



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Public Outreach Update





- Identify community values around water and reflect in IWRP
- Make project information readily available throughout process
- Seek input that reflects the diversity of Austin
- Build on community partnerships and communication networks
- Provide stakeholders opportunities to interact with project team, ask questions
- Respond to public questions and concerns



Ongoing Outreach Activities

- Online Outreach
 - Social media: Facebook & Twitter
 - eNewsletters
 - Water Forward, WaterWise, Imagine Austin, Sustainability Office, AE's Power Plus, etc.
 - NextDoor
- Surveys
 - Community Values Survey
 - Public Comment Portal
 - Input on options



At UT City Forum



At Water is Life Interfaith Preach-Off



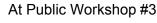
Ongoing Outreach Activities

- Information sharing with regional communities
- Community and neighborhood
 association meetings
- Town Halls
- Community events and festivals
 - Zilker Garden Festival
 - Interfaith Preach-Off
 - University of Texas City Forum
 - Youth Career Fest
 - Central Texas Water Efficiency Network Symposium
 - African American Heritage
 Network Black History Luncheon



At Targeted Stakeholder Meeting







At Water is Life Interfaith Preach-Off





Public Workshops

• Workshop #1 – September 6

 \circ Overview of IWRP and Objectives

- Workshop #2 February 8:
 - Future Water Supply Needs and Strategies to Meet Them
- Workshop #3 April 4:
 - Water Supply Options
- Workshop #4 August 2017:

 \circ Portfolio Themes

- Workshop **#5** Early 2018:
 - o Draft Plan Recommendations



Water Forward – Austin's Integrated Water Resource Plan April 11, 2017

Public Workshops #2 and #3

- February 8 & April 4, 2017
- Locations:
 - AISD Performing Arts Center Multipurpose Room
 - o One Texas Center
- ~50 attendees (combined)
- Purpose
 - Gather public input on Future Water Supply Needs and Strategies to Meet Them



At Public Workshop #2 – AISD Multipurpose Room



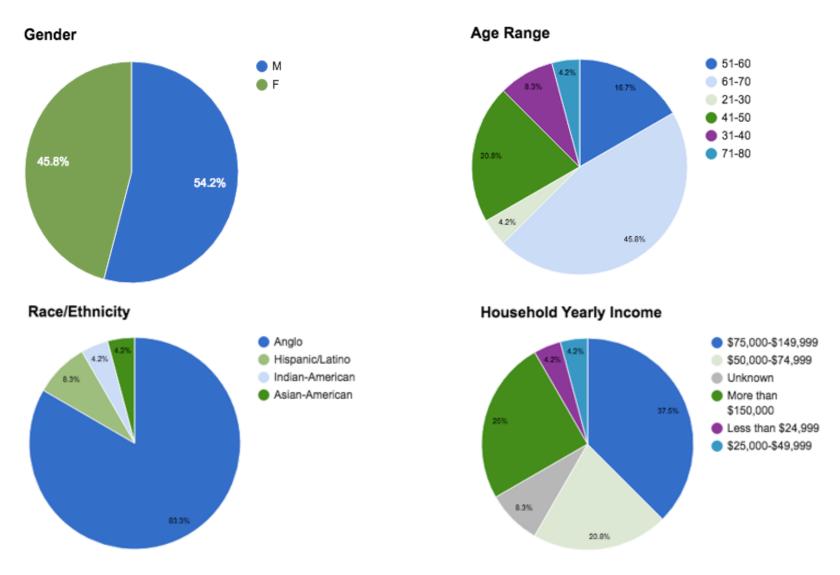
At Public Workshop #3 – One Texas Center



Invitations

- Austin Water emailed the following eNewsletter lists a notice about the workshop:
 - Water Forward (~340 stakeholders)
 - WaterWise Residential List (~15,700)
 - WaterWise Commercial List (~130)
- Austin Water emailed invitations to groups and individuals on the Water Forward stakeholder list, including:
 - Neighborhood associations
 - Businesses, developers, and professional organizations
 - Environmental advocates
 - Civic Leaders
 - Faith-based organizations
 - Education representatives
- Austin Water reached out to City Council members and engaged the IWRP Task Force
- Austin Water emailed the staff liaisons for the Water Wastewater Commission, Resource Management Commission (RMC), and the Environmental Commission.
- Posted information to Next Door and Facebook and Twitter
- Posted information to the Water Forward website, <u>http://austintexas.gov/waterforward</u>

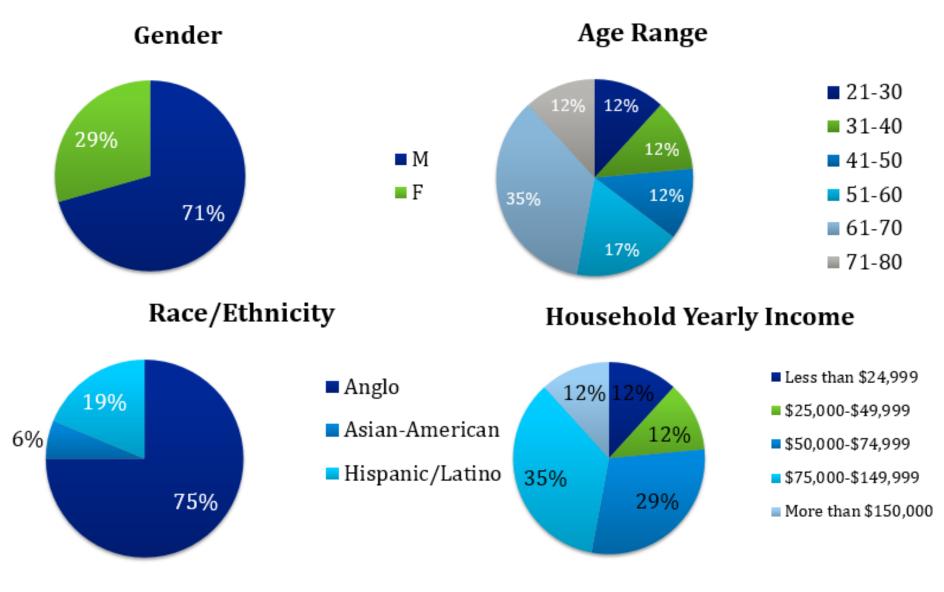
Demographic Summary of Workshop #2 Participants



Austin

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Demographic Summary of Workshop #3 Participants

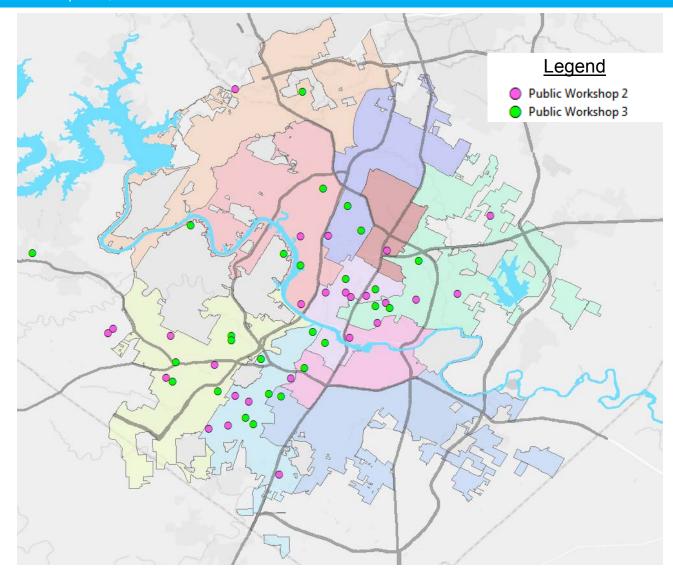


Austin

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Water Forward – Austin's Integrated Water Resource Plan April 11, 2017

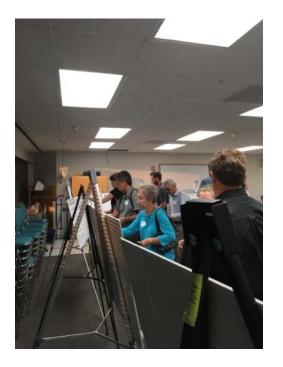


Participation Map – Workshop 2 & 3



What we shared

- Provided an overview of the Integrated Water Resource Plan purpose and planning process, as well as future public outreach activities. The presentation highlighted:
 - Austin's existing water supplies
 - o Water demand forecast
 - Preliminary water needs analysis
- Provided an overview of strategies to meet future water needs



- Brief question and answer sessions followed presentation providing attendees an opportunity to ask clarifying questions and facilitate additional information sharing.
- Stakeholders were asked to give their feedback on supply & demand management option categories by placing a dot on a grid for each option category indicating "like it", "don't like it", "okay with it", or "need more info". Stakeholders could also write comments on a post it note and stick it on the board.



Workshops 2 and 3: What we heard





Public Workshop #2 - Dot Exercise Results

Preliminary Demand Side Option Categories	Like it	Don't like it	Okay with it	Need more info
Water Loss Control	21			
Automated Metering Infrastructure (AMI)	20		2	1
Landscape Transformation	19	1	1	
Irrigation Efficiency	17	1	1	1
Commercial/Institutional/Industrial Conservation	17	2	2	
Plumbing Fixture Efficiency	14	1	4	3
Onsite Reuse of Water for Non-Potable Uses	20	1	1	
Water Use Benchmarking	20		1	
Customer Education/Outreach	18		1	
Water Rates/Water Fees	14		6	2



Public Workshop #2 - Dot Exercise Results (Continued)

Preliminary Supply Side Option Categories	Like it	Don't like it	Okay with it	Need more info
Expanded Reclaimed Water System	17		3	
Decentralized Options for Wastewater Reuse	19		1	1
Indirect Potable Reuse	5	4	6	7
Direct Potable Reuse	4	2	5	8
Rainwater and Stormwater Capture	22		2	
Aquifer Storage and Recovery	14	1	2	5
Additional LCRA supply/Enhanced Lake Operations/Capture of Stormwater Inflows	10	3	1	5
Enhanced Off-Channel Storage at Walter E. Long Lake	15		4	2
Groundwater	2	2	9	7
Seawater Desalination	1	10	2	8



Public Workshop #3 - Dot Exercise Results

Preliminary Supply Side Option Categories	Like it	Don't like it	Okay with it	Need more info
Expanded Reclaimed Water System	14		4	
Decentralized Options for Wastewater Reuse	18		1	
Indirect Potable Reuse	6	6	1	3
Direct Potable Reuse	13	1	2	3
Rainwater and Stormwater Capture	21			
Aquifer Storage and Recovery	4	1	8	4
Additional LCRA supply/Enhanced Lake Operations/Capture of Stormwater Inflows	6		2	8
New Off-Channel Reservoir	5	3	2	5
Groundwater	5	5		5
Seawater Desalination	4	9	1	3
Inter-Basin Transfers	1	9	2	5
Partnership Approaches	6	5		5

Next Steps

Austin

AATE

- Upcoming Earth Day Activities
- Scheduled Town Halls:
 - District 5, CM Kitchen, April 29th
 - District 7, CM Pool, May 13th
- Coordination with Leadership Austin
- Summer Series
 - Planning community engagement in each Council District



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Water Supply Options Update

- Revised List of 21 Water Supply Options
 - Revised list is included in meeting materials packet
 - -Second public workshop held April 4th
 - Public input on options added based on Task Force member input after February Public Workshop
 - Additional public input on water supply options
 - Screening process underway to identify top 10 for characterization

Austin

- Update on Aquifer Storage and Recovery (ASR) options
 - Feasibility and Engineering Analysis (FEA) #5:
 - Travis County ASR options evaluated:
 - Central Edwards Aquifer (North of Colorado River)
 - Lower Trinity Aquifer
 - Consultant presented preliminary results at October 2016 Task
 Force Meeting
 - With certain exceptions, current rules do not allow injection wells into or transecting the Edwards Aquifer in a number of counties including Travis and would not currently allow the above two ASR options
 - Appropriate exceptions to applicable statutes or rules could be sought for these options
 - Recent legislation has amended the Texas Water Code to generally remove water rights permitting barriers to ASR projects
 - ASR in Carrizo-Wilcox aquifer option has been added to list for screening

Austin

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April 11, 2017

Upcoming

Upcoming

Austin

- April 18th Task Force Meeting
 - Presentation on Task 6.3 Decentralized
 Options Geospatial Analysis from GHD
- May 2nd Task Force Meeting
 - Presentation on characterized 10 demand management options



April 11, 2017

Questions?

BACKUP MATERIALS

Water Forward





Top 10 Demand Management Options

Landscape Transformation – Ordinances

Automated Metering Infrastructure (AMI)

Water Loss Control Utility Side

Landscape Transformation – Incentives

Irrigation Efficiency – Incentives

CII Ordinances – Cooling Towers and Steam Boilers

Alternative Water Ordinances

Development-focused Water Use Estimates/ Benchmarking – Plan Submittal

Alternative Water – Incentives

Alternative Water Incentives -Graywater

List of	21 Water Supply O	ptions To Be Screened	Relative Magnitude of <u>Annual Supply (Acre-Feet)</u>	<u>Resiliency</u>	<u>Supply</u> <u>Types</u>
	agnitudes indicated for each optic e refined through the IWRP proce		< 10,000 AF	Low Medium	Drought Constant
			>20,000 AF	High	Variable
	Option	Brief Description	Est. Annual Supply	Resiliency	Supply Type
1	Aquifer storage and recovery (FEA 5)	Aquifer storage and recovery is a strategy in which water (ex: potable drinking can be stored in an aquifer during wetter periods and recovered for use duri periods. Storing water underground can improve drought preparedness and the amount of water that evaporates compared to water storage in open ground reservoirs. This type of strategy is currently being used by cities i including San Antonio, Kerrville and El Paso. Exploring aquifer storage and r as a potential option was a recommendation of the 2014 Task Force and h analyzed by Austin Water as part of Feasibility and Engineering Analysis #5 (N Edwards and Trinity Aquifers).	ng drier reduces above- n Texas ecovery as been	Medium	Drought
2	Direct non-potable reuse (centralized reclaimed purple-pipe system)	Through its Water Reclamation Initiative (WRI) program, Austin Water p highly treated wastewater effluent for non-potable uses such as irrigation, manufacturing, and toilet flushing. Austin's direct reuse (purple pipe) currently supplies approximately 4,600 AF per year. The 25-year direct reuse master plan includes a total of 130 miles of transmission mains to be construct an estimated annual use volume of 25,600 AF. Potential expansion beyo amount may be explored as part of the IWRP process.	cooling, system system ted and	High	Constant
3	Lake Austin operations (lake level variation)	This option is an operational drought strategy to vary the Lake Austin operatiduring non-peak months (October-May) and after combined storage in the H Lakes falls below 600,000 acre-feet. This strategy would allow local usage to d lake down a maximum of three feet to be able to catch runoff from locatevents should they occur. This approach would allow for use of this runopposed to excess runoff spilling over Tom Miller Dam to flow downstreatemeasure was included as a recommendation of the 2014 Task Force.	lighland raw the al storm unoff as	Low	Drought
4	Stormwater Harvesting	This option involves the collection and reuse of stormwater to meet appropri use demands. The implementation of this strategy is dependent on a nur factors including the catchment area, storage capacity, rainfall frequency, an demand of the end user. On average, the Austin area generally receives a inches of rainfall per year. This rainfall is not distributed uniformly during t and, as a result, implementation of this strategy should consider water dema supplies over a multi-month period. This option is being analyzed as part of T	mber of d water bout 32 the year nds and	Low	Constant, subject to availability
5	Rainwater Harvesting	This option involves the collection and reuse of rainwater to meet appropri use demands. The implementation of this strategy is dependent on a nur factors including the catchment area, storage capacity, rainfall frequency, an demand of the end user. On average, the Austin area generally receives a inches of rainfall per year. This rainfall is not distributed uniformly during t and, as a result, implementation of this strategy should consider water dema supplies over a multi-month period. This option is being analyzed as part of T	mber of d water bout 32 the year nds and	Low	Constant, subject to availability
6	Sewer mining (wastewater skimming)	This option involves the extraction (mining or scalping) of wastewater fr centralized sewer system, treatment at a small local facility, and reuse to me potable demands. Implementation of this strategy is highly site-specific, dep on factors including accessibility of wastewater flows and proximity to suital potable demands, with drivers being to minimize potable water consumpt infrastructure upsizing. Wastes from the treatment process are typically dist to the centralized sewer system for subsequent treatment at the down Wastewater Treatment Plants (WWTPs). This option is being analyzed as part 6.3.	eet non- bendent ble non- ion and charged nstream	High	Constant

	Option	Brief Description	Est. Annual Supply	Resiliency	Supply Type
7	Distributed wastewater systems	This option involves the onsite capture and treatment of the wastewater stream generated in a building or development for reuse to meet non-potable demands onsite. To be feasible, this option requires that a building or development have sufficient non-potable demand to beneficially use all of the reuse water that is produced and that the building have enough wastewater available to reuse and meet non-potable demands. Types of treatment systems may include constructed wetlands (for example the "Living Machine" at SFPUC), membrane bioreactors, etc. This option is being analyzed as part of Task 6.3.	٠	High	Constan
8	Capture Lady Bird Lake Inflows (FEA 4)	This option would Capture available spring and stormwater flow into Lady Bird Lake and convey the water to the Ullrich WTP through a potential new intake pump and piping system. Exploring capturing Lady Bird Lake inflows as a potential option was a recommendation of the 2014 Task Force and has been analyzed by Austin Water as part of Feasibility and Engineering Analysis #4.	٠	Low	Variable
9	Indirect reuse – bed and banks	Recapture discharged treated effluent from Austin's Wastewater Treatment Plants downstream to be pumped back upstream for treatment. City of Austin and LCRA have applied jointly for the water right permit for indirect reuse in accordance with the terms of the 2007 settlement agreement between Austin and LCRA.		to permitting, av	
10	Indirect Potable Reuse through Lady Bird Lake (FEA 2)	This option would convey highly treated reclaimed water from one treatment train at South Austin Regional Wastewater Treatment Plant to Lady Bird Lake and subsequently divert water by a potential new intake pump and piping system downstream of Tom Miller Dam to the Ullrich Water Treatment Plant to help meet City demands. This approach could supplement water releases from lakes Buchanan and Travis to extend water supplies during severe drought. This option was a recommendation of the 2014 Task Force and has been analyzed by Austin Water as part of Feasibility and Engineering Analysis #2		High	Drough
11	Indirect Potable Reuse through Alluvial Aquifer (FEA 3)	This option would convey highly treated reclaimed water from one treatment train at South Austin Regional Wastewater Treatment Plant to an infiltration basin within the Colorado River alluvium. After a minimum six month retention time, recovery wells and pump station would capture and transport the water to Lady Bird Lake. A potential new intake pipe and pump station downstream of Tom Miller Dam would convey the water to the Ullrich Water Treatment Plant to help meet City demands. This approach could supplement water releases from lakes Buchanan and Travis to extend water supplies during severe drought. Exploring reclaimed water infiltration as a potential option was a recommendation of the 2014 Task Force and has been analyzed by Austin Water as part of Feasibility and Engineering Analysis #3.		High	Variabl
12	Direct potable reuse	This option is relatively new to Texas and involves taking treated wastewater effluent, further treating it at an advanced water treatment plant, and then either introducing it upfront of the water treatment plant or directly into the potable water distribution system.		High	Constar
13	Desalination – brackish groundwater	Desalination is the process of removing dissolved solids from seawater or brackish groundwater, often by forcing the source water through membranes under high pressure. The specific process used to desalinate water varies depending upon the total dissolved solids, the temperature, and other physical characteristics of the source water but always requires disposal of concentrate that has a higher total dissolved content than the source water. Disposal may take the form of an injection well, evaporation beds, or an ocean outfall diffuser. Exploring desalination of brackish groundwater as a potential option was a recommendation of the 2014 Task Force		High	Constar
14	Desalination – seawater	Desalination is the process of removing dissolved solids from seawater or brackish groundwater, often by forcing the source water through membranes under high pressure. The specific process used to desalinate water varies depending upon the total dissolved solids, the temperature, and other physical characteristics of the source water but always requires disposal of concentrate that has a higher total dissolved content than the source water. Disposal may take the form of an injection well, evaporation beds, or an ocean outfall diffuser.		High	Constar
15	Lake Evaporation Suppression	Under development	TBD	High	Variabl
16	Conventional Groundwater		TBD	Medium	Variable

	Option	Brief Description	Est. Annual Supply	Resiliency	Supply Type
17	Additional supply from LCRA	Under development	TBD	Medium	Constant
18	Aquifer Storage and Recovery (Carrizo Aquifer)	Under development	TBD	Medium	Drought
19	Explore partnership approaches on regional strategies with Corpus Christi or others	Potential strategies could include aquifer storage and recovery, purchase of available water supply, or other partnerships.	TBD	TBD	TBD
20	Inter-Basin Transfers from Available Surface Water Supplies	Under development	TBD	TBD	TBD
21	Off Channel Reservoir (Austin vicinity)	Under development	TBD	TBD	TBD
Planned	Add municipal uses to steam- electric water rights, where appropriate	Increase flexibility related to use of Lady Bird Lake (currently being used for Austin's portion of Fayette Power Project and other Austin Energy uses) and Decker Lake steam-electric water rights.			