



WATER FORWARD
INTEGRATED WATER RESOURCE PLAN

Austin Integrated Water Resource Planning Community Task Force

Packet Index

May 1, 2018

<u>Item</u>	<u>Page</u>
Agenda	2
Minutes	5
Presentation	7
Draft IWRP Report Review Questions	16
Initial Assumptions on Potential Code Changes Required for Water Forward Options Implementation	
Revised Implementation Outlook and Adaptive Management Plan	
Draft Water Forward Plan Report	



Austin Integrated Water Resource Planning Community Task Force
May 01, 2018 – 4:00 p.m.
Waller Creek Center, Room 104
625 East 10th Street
Austin, Texas 78701

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

AGENDA

Voting Members:

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

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 – May 01, 2018, 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 April 19, 2018 Task Force meeting (5 minutes)

4. STAFF BRIEFINGS, PRESENTATIONS, AND OR REPORTS

- a. Follow-Up Items from Revised Draft Plan Recommendations and Implementation Outlook Discussion (20 minutes)
 - i. Task Force Discussion and Input (approximately 20 minutes)
- b. Presentation on high level walk through of Draft Plan Report - City Staff (30 minutes)
 - i. Task Force Discussion and Input (approximately 30 minutes)

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 Special Called Meeting on April 19, 2018 at Waller Creek Center, Conference Rm 104, 625 E 10th Street, in Austin, Texas.

Members in Attendance:

Jennifer Walker – Vice Chair
William Moriarty
Diane Kennedy

Todd Bartee
Lauren Ross

Marianne Dwight
Sarah Richards

Ex-Officio Members in Attendance:

Chris Herrington, Lucia Athens, Kathleen Garrett

Staff in Attendance:

Kevin Critendon, Daryl Slusher, Teresa Lutes, Marisa Flores Gonzalez, Mark Jordan, Helen Gerlach, Bruk Berhanu, Katherine Jashinski, Jeff Fox, Geneva Guerrero

Additional Attendees:

Stefan Schuster

1. CALL TO ORDER

Jennifer Walker, Acting Chair, called the meeting to order at 5:14 p.m.

2. CITIZEN COMMUNICATION: GENERAL

Hank Smith spoke about the Home Builders Association’s Sensible Landscaping Guide and prevalence of infill housing development

3. APPROVAL OF MEETING MINUTES

The meeting minutes from the April 19, 2018 Austin Integrated Water Resource Planning Community Task Force regular meeting were approved on Member Richard’s motion and Member Kennedy’s second on a 7-0-0-4 vote with Member Dawson, Member Leurig, Member Lorenz and Member Mace absent.

4. STAFF BRIEFINGS, PRESENTATIONS, AND/OR REPORTS

- a. Presentation on Revised Draft Plan Recommendations and Implementation Outlook was provided by Marisa Flores-Gonzalez, Austin Water. This presentation was followed by Task Force discussion and input, followed by questions and answers.

5. SUBCOMMITTEE REPORTS

None

6. VOTING ITEMS FROM TASK FORCE

Proposed meeting dates through the end of the plan development process approved on Member Richard’s motion and Member Kennedy’s second on a 7-0-0-4 vote with Member Dawson, Member Leurig, Member Lorenz and Member Mace absent.

7. FUTURE AGENDA ITEMS

None

Acting Chair Walker adjourned the meeting at 8:00 pm.

PRESENTATION



WATER FORWARD

INTEGRATED WATER RESOURCE PLAN

Water Forward Task Force Meeting

May 1, 2018



Agenda

- Schedule Through End Of Plan Development Process
- Follow-Up Items from Revised Draft Plan
Recommendations and Implementation Outlook
Discussion
 - Task Force Discussion and Input
- High Level Walk Through of Draft Plan Report
 - Task Force Discussion and Input

Schedule Through End Of Plan Development Process

Schedule

Date	Event	
May 1st	Task Force Meeting	High level walk through of draft plan report <ul style="list-style-type: none"> • Staff will email an updated version of the plan report by Monday, May 14th
Jun. 5th	Task Force Meeting	Task Force input on draft plan report
Summer 2018	Boards and Commissions Outreach	Presentation of plan recommendations
Aug. 2018	Task Force Meeting	TF review of revised plan report
Sept. 2018	Task Force Meeting	Recommendation for action on final plan
Sept/Oct. 2018	W/WW Commission Meeting	Review and recommendation for action on final plan
Oct/Nov. 2018	City Council Meeting	Action on final plan

Follow-Up Items from Revised Draft Plan Recommendations and Implementation Outlook Discussion

High Level Walk Through of Draft Plan Report



Draft Plan Report – Subject to Change – 5/1/2018

Table of Contents

1. Executive Summary	1-1
2. Introduction	2-1
2.1 Overview of Austin’s Water Supply System	2-2
2.2 Water Supply Conditions and Drought	2-3
2.3 Water Forward IWRP Mission Statement	2-5
3. Collaborative Plan Development Process	3-1
3.1 Task Force Involvement	3-1
3.2 Stakeholder and Public Involvement	3-2
3.2.1 Collaborative Water Forward Workshops	3-2
3.2.2 Targeted Stakeholder Meetings	3-3
3.2.3 Outreach Efforts	3-4
4. Water Demands	4-1
4.1 Disaggregated Demand Model	4-1
4.1.1 Demand Model Attributes	4-1
4.1.2 Model Development	4-3
4.1.3 Data Sources	4-4
4.2 Current Water Use	4-5
4.3 Future Baseline Water Demand	4-7
5. Water Forward Planning Process	5-1
5.1 Evaluation Process Overview	5-1
5.2 Objectives and Performance Measures	5-2
5.2.1 Hydrologic Needs Assessment	5-3
5.3 Options Screening and Characterization	5-5
5.3.1 Options Screening Method	5-5
5.3.2 Options Characterization Process	5-6
5.4 Portfolio Development and Evaluation	5-6
5.4.1 Method for Formulation of Portfolios	5-6
5.4.2 Portfolios Evaluation Method	5-7
6. Hydrology and Climate Change Modeling	6-1
6.1 Definition of Water Needs	6-1
6.2 Hydrologic and Climate Modeling	6-1
6.3 Summary of Water Needs	6-1
7. Water Conservation and Demand Management Strategies	7-1
7.1 Water Conservation History	7-1
7.2 Current Water Conservation Measures	7-3

Draft – Subject to Change - 5/1/2018

7.2.1 Ordinances	7-3
7.2.2 Residential Customer Programs	7-5
7.2.3 Incentive Programs for Businesses	7-5
7.2.4 Water Loss Control	7-6
7.2.5 Advanced Metering Infrastructure Pilot Program	7-6
7.2.6 Water Conservation Public Education Programs	7-6
7.3 Water Conservation and Demand Management Strategies for the Future	7-7
7.3.1 Advanced Metering Infrastructure (AMI)	7-8
7.3.2 Utility Side Water Loss Control	7-8
7.3.3 Commercial, Industrial, and Institutional (CII) Ordinances	7-8
7.3.4 Development-Focused Water Use Benchmarking and Budgeting	7-8
7.3.5 Landscape Transformation Ordinances	7-9
7.3.6 Landscape Transformation Incentives	7-9
7.3.7 Irrigation Efficiency Incentives	7-9
7.3.8 Alternative Water Ordinance and Incentives	7-9
7.3.9 Air Conditioning Condensate Reuse Ordinance	7-10
7.3.10 Other Options Considered in the Planning Process	7-12
8. Water Supply Strategies	8-1
8.1 Current Water Supply Infrastructure	8-1
8.1.1 Surface Water System	8-1
8.1.2 Reclaimed Water System	8-1
8.2 Future Water Supply Options	8-2
8.2.1 Aquifer Storage and Recovery	8-2
8.2.2 Brackish Groundwater Desalination	8-3
8.2.3 Non-Potable Reuse	8-3
8.2.4 Direct Potable Reuse	8-4
8.2.5 Indirect Potable Reuse	8-5
8.2.6 Additional Supply from Lower Colorado River Authority (LCRA)	8-5
8.2.7 Off-Channel Storage Reservoir	8-5
8.2.8 Seawater Desalination	8-6
8.2.9 Distributed Wastewater Reuse	8-6
8.2.10 Sewer Mining	8-6
8.2.11 Community Stormwater Harvesting	8-7
8.2.12 Community Rainwater Harvesting	8-8
8.2.13 Conventional Groundwater	8-8
8.2.14 Other Options Considered in the Planning Process	8-8
9. Portfolio Evaluation	9-1
9.1 Portfolio Definitions	9-2
9.2 Raw Performance Score Card	9-6
9.2.1 Water Supply Benefits	9-8
9.2.2 Economic Benefits	9-8
9.2.3 Environmental Benefits	9-10
9.2.4 Social Benefits	9-10
9.2.5 Implementation Benefits	9-11
9.3 Portfolio Rankings	9-11



BACKUP MATERIALS

AW IWRP Report
Draft Task Force Questions

Section 2

1. Did this section present a clear background on AW's water system?
2. Was the need for the IWRP compelling?
3. Were the IWRP guiding principles understandable?

Section 3

1. Did this section summarize the IWRP collaborative process sufficiently?

Section 4

1. Was the background on the demand model understandable?
2. Was sufficient information about the baseline demand forecast provided?
3. Was it clear that the baseline demand forecast does not yet incorporate water savings from potential future Water Forward demand management strategies?

Section 5

1. Did this section present a clear background on AW's IWRP planning process?
2. Where the objectives and performance metrics presented clearly?
3. Was the method for evaluating portfolios understandable?

Section 6 [This section's questions will be forthcoming when the section is provided in more detail]

Section 7 and Section 8

1. Was the information on the current Water Conservation Program presented in a clear way?
2. Was the information on current water supplies presented in a clear way?
3. Did these sections present the demand-side management and supply strategies with sufficient detail to make them understandable?

Section 9

1. Were the portfolio themes described sufficiently and clearly?
2. Was the summary of metrics used to evaluate the portfolios presented clearly?
3. Were the results of portfolio evaluations understandable?

Section 10

1. Were the IWRP recommendations presented clearly?
2. Was the adaptive management approach understandable?