REGION H Water Planning Group

WATER MANAGEMENT STRATEGY COMMITTEE MEETING MATERIALS

September 4, 2019

San Jacinto River Authority

Common Region H Terms and Conversion Factors

List of Abbreviations

EΑ

IPP

COA Certificate of Adjudication CRU **Collective Reporting Unit** DCP **Drought Contingency Plan** DFC **Desired Future Condition** DOR Drought of Record

Executive Administrator EPA **Environmental Protection Agency FWSD** Fresh Water Supply District GAM Groundwater Availability Model GCD **Groundwater Conservation District GMA Groundwater Management Area GPCD** Gallons Per Capita Per Day GRP **Groundwater Reduction Plan**

Initially Prepared Plan

MAG Modeled Available Groundwater MPC Master Planned Community MUD Municipal Utility District **MWP** Major Water Provider

PDSI Palmer Drought Severity Index

PWS Public Water Supply

RHWPG Region H Water Planning Group

Run-of-River ROR

RWP Regional Water Plan

RWPA Regional Water Planning Area **RWPG** Regional Water Planning Group

SWIFT State Water Implementation Fund for Texas

SWP State Water Plan

TAC Texas Administrative Code

TCEQ Texas Commission on Environmental Quality

Texas Parks and Wildlife Department **TPWD**

TWC **Texas Water Code**

TWDB Texas Water Development Board

UCM **Unified Costing Model** WAM Water Availability Model

WCID Water Control and Improvement District

WCP Water Conservation Plan WMS Water Management Strategy WRAP Water Rights Analysis Package

WUD Water Utility Database WUG Water User Group

WWP Wholesale Water Provider

Water Measurements

1 acre-foot (AF) = 43,560 cubic feet = 325,851 gallons

1 acre-foot per year (ac-ft/yr) = 325,851 gallons per year = 893 gallons per day

1 gallon per minute (gpm) = 1,440 gallons per day = 1.6 ac-ft/yr

1 million gallons per day (mgd) = 1,000,000 gallons per day = 1120 ac-ft/yr

Region H Water Planning Group Water Management Strategy Committee 12:00 PM Wednesday September 4, 2019

Following the conclusion of the Region H RWPG Meeting
San Jacinto River Authority Office
1577 Dam Site Rd, Conroe, Texas 77304

AGENDA

- 1. Call to order.
- 2. Introductions.
- 3. Review and approve minutes of March 21, 2018 WMS Committee meeting.
- 4. Receive public comments on specific issues related to agenda items 4 through 7. (Public comments limited to 3 minutes per speaker)
- 5. Discuss Committee activities and schedule.
- 6. Discuss water management strategy recommendations and process from the Region H 2021 Regional Water Plan.
- 7. Discuss options for utilization of remaining unallocated Task 5 funds and consider making recommendations to the Region H Water Planning Group.
- 8. **Receive public comments**. (Public comments limited to 3 minutes per speaker)
- 9. Adjourn.

Persons with disabilities who plan to attend this meeting and would like to request auxiliary aids or services are requested to contact Sonia Zamudio at (936) 588-3111 at least three business days prior to the meeting so that appropriate arrangements can be made.

Review and approve minutes of March 21, 2018 WMS Committee meeting.



REGION H WATER PLANNING GROUP WATER MANAGEMENT STRATEGY COMMITTEE MINUTES OF COMMITTEE MEETING MARCH 21, 2018

A meeting of the Region H Water Planning Group Water Management Strategy Committee was held at 9:30 a.m., March 21, 2018, at the Freese and Nichols Houston office. A notice of said meeting was posted as required by law.

MEMBERS PRESENT: John Bartos, Bob Hebert, Jace Houston (phone), Ivan Langford (phone), Glenn Lord, Mike Turco, Kevin Ward (phone)

DESIGNATED ALTERNATES: Brad Burnett for David Collinsworth, Veronica Osegueda for Yvonne Forrest

MEMBERS ABSENT: Robert Bruner, Mark Evans, Jimmie Schindewolf

NON-VOTING MEMBERS PRESENT:

NON-MEMBERS PRESENT: Lann Bookout (TWDB), Beth Wolf (Fort Bend County), Ken Kramer (Sierra Club) for Carl Masterson, Chris Rosales (City of Houston), Alisa Max (Harris County), John Burke (Region K), Jim Sims (TRA)

CONSULTANT TEAM: Jason Afinowicz, Philip Taucer, Mike Reedy, Courtney Merket, Glenda Callaway

The meeting was called to order at 9:36 a.m.

1. INTRODUCTIONS

Mr. Hebert welcomed the committee members and guests to the meeting.

2. REVIEW AND APPROVE MINUTES OF NOVEMBER 1, 2017 WMS COMMITTEE MEETING

The committee passed a motion to approve the minutes of the WMS Committee meeting on November 1, 2017.

3. RECEIVE PUBLIC COMMENTS ON SPECIFIC ISSUES RELATED TO AGENDA ITEMS 4 THROUGH 8

There were no public comments.

4. DISCUSS COMMITTEE ACTIVITIES AND SCHEDULE

Mr. Taucer provided an update to the 2021 Regional Water Plan schedule referencing various due dates. The Committee agreed that future Committee meetings would be scheduled on an as-needed basis.

5. DISCUSS WATER MANAGEMENT STRATEGY RECOMMENDATIONS AND PROCESS FROM THE REGION H 2016 REGIONAL WATER PLAN.

Mr. Taucer summarized the types of water management strategies in the 2016 Region H RWP. Mr. Mike Turco requested a summary of SWIFT spending by region; Mr. Lann Bookout responded that the Texas Water Development Board does have a summary list of all spending in Region H.

6. DISCUSS PRELIMINARY SCOPE AND BUDGET FOR REQUESTING TASK 5 FUNDS FOR THE INITIATION OF DETAILED INVESTIGATION INTO POTENTIAL WATER MANAGEMENT STRATEGIES AND CONSIDER MAKING RECOMMENDATIONS TO THE REGION H WATER PLANNING GROUP.

Mr. Taucer explained the funding process for Task 5A and then detailed each of six subtasks developed by the consultant team for potential inclusion in the initial Task 5A request for notice-to-proceed. Based on discussion by the group, the Committee recommended adding subtasks for conservation and aquifer storage and recovery (ASR). Ms. Alisa Max noted that direct reuse would be likely be increasing, particularly in rural areas.

7. DISCUSS POTENTIAL WATER MANAGEMENT STRATEGY FOCUS AREAS FOR THE 2021 RWP.

Mr. Brad Brunett suggested that reallocation of reservoir supplies should be included as a focus area. Mr. Ken Kramer commented that some regions adopted drought management strategies in the 2016 RWPs and suggested that this be considered as an option in Region H.

8. CONSIDER DEVELOPMENT OF A SAFETY FACTOR FOR THE ALLOCATION OF SUPPLIES AND STRATEGIES TO WATER USER GROUPS IN DEVELOPMENT OF THE 2021 REGIONAL WATER PLAN.

The Committee decided to recommend to the RWPG that Region H should not use a management supply factor target in the 2021 Region H RWP.

9. RECEIVE PUBLIC COMMENTS

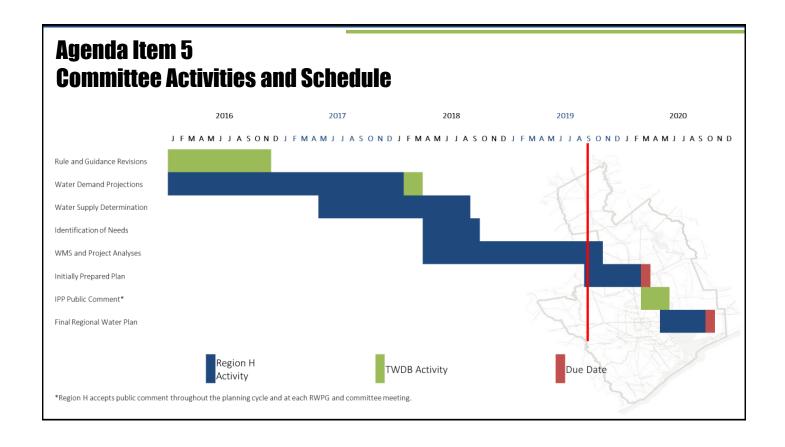
Mr. Ken Kramer notified the Committee of the "Water Conservation by the Yard" report being published this month.

10. ADJOURN

Without objection, the meeting was adjourned at 10:45 a.m.

Discuss Committee activities and schedule.





Agenda Item 5 Committee Activities and Schedule

	and beautiful
Date	Scheduled Events/Tasks
09/2019	WMS Committee Meeting
11/2019	WMS Committee Meeting
01/2020	WMS Committee Meeting
03/2020	DUE DATE: Initially Prepared Plan
10/2020	DUE DATE: FINAL RWP

Agenda Item 5 Committee Activities and Schedule

Completed

- Process to identify
- Process to evaluate

In Progress

• WMS Evaluation and recommendations

In Near Future

- Additional WMS scope
- Implementation analysis

At The End

• Prioritization analysis

Discuss water management strategy recommendations and process from the Region H 2021 Regional Water Plan.



Agenda Item 6 WMS Recommendations

Primary Topics for Today

- Context for 2021 RWP
- Strategy Outlook
- Major Milestones
- Demand Management
- Work in Progress
- Related Tasks
- Discussion and Recommendations

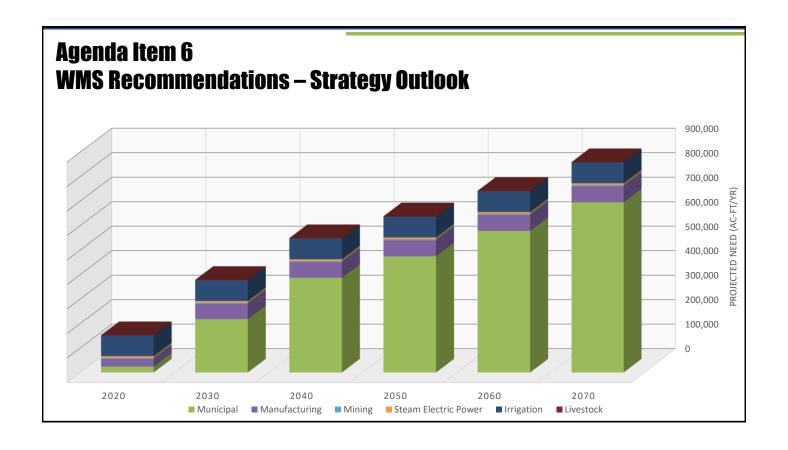
Agenda Item 6 WMS Recommendations – Context for 2021 RWP

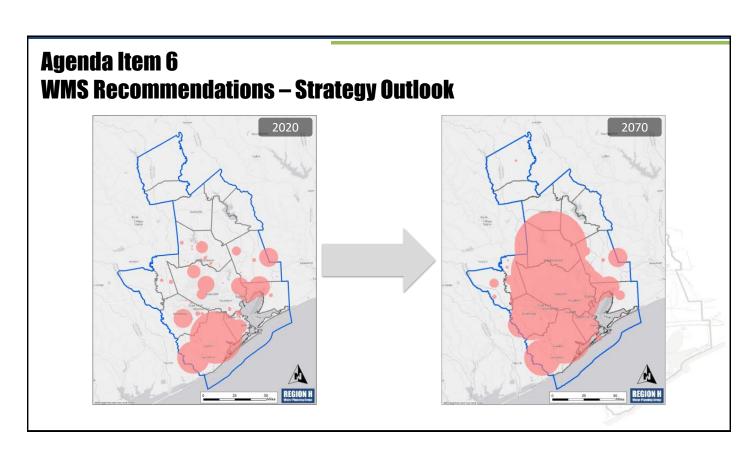
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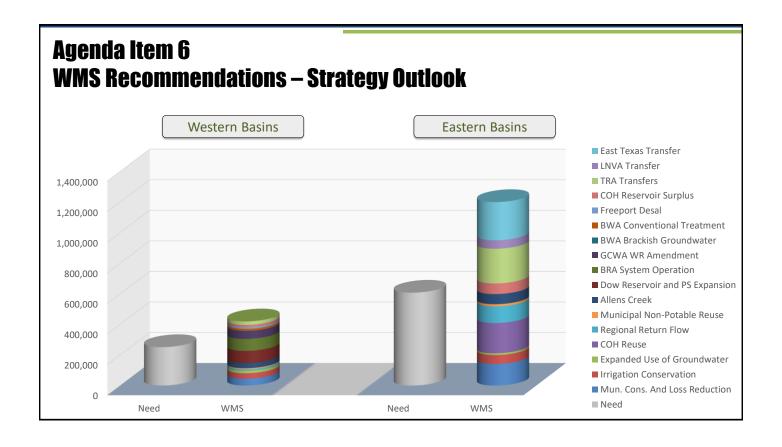
- Report structure
- Database structure
- Suite of WMS and projects
- Uniform Standards

Some Changes:

- Project implementation
- Demand and supply projections
- Timing
- Cost assumptions
- Qualifying projects

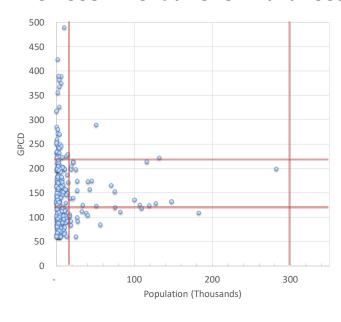








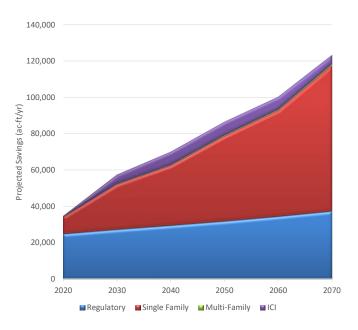
Agenda Item 6 WMS Recommendations – Advanced Conservation

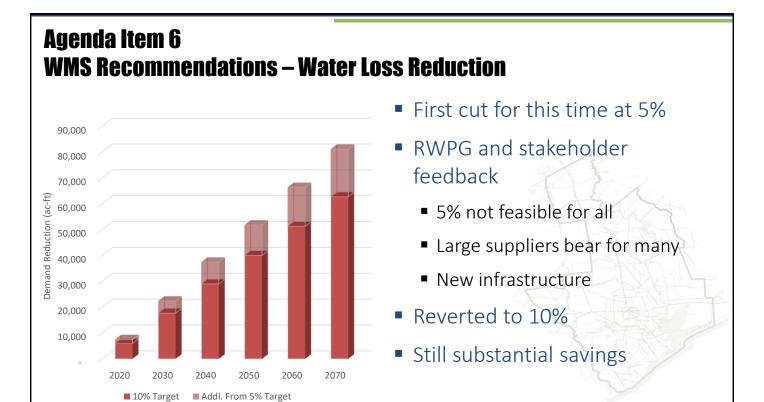


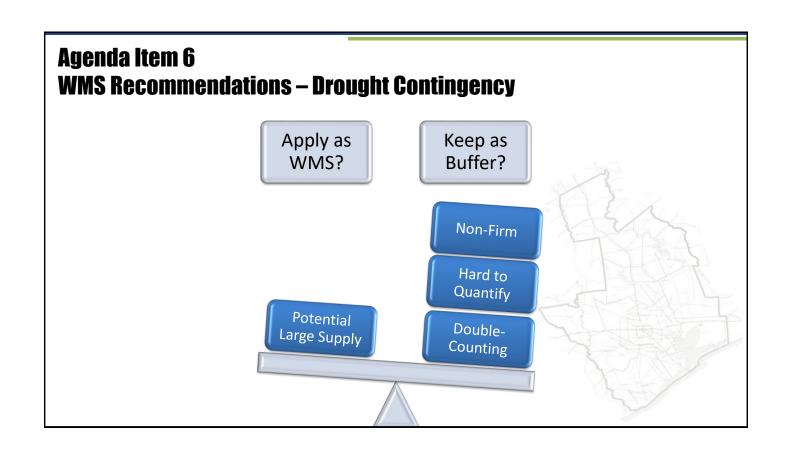
- Growing knowledge base
 - TWDB tools
 - Texas Living Waters
 - Goldwater study
- Measure portfolio by category
 - Potential from GPCD
 - Programs from size

Agenda Item 6 WMS Recommendations – Advanced Conservation

- Adjusted for RWPG input
- Broad range of measures
 - Twice-per-week watering
 - Home water reports
 - Irrigation audits
 - Rebate programs
 - Rain barrels
 - Commercial fixture rebates



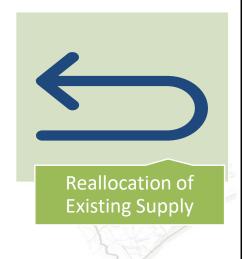




Agenda Item 6 WMS Recommendations – Accounting Components

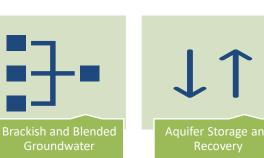






Agenda Item 6 WMS Recommendations – Source Water



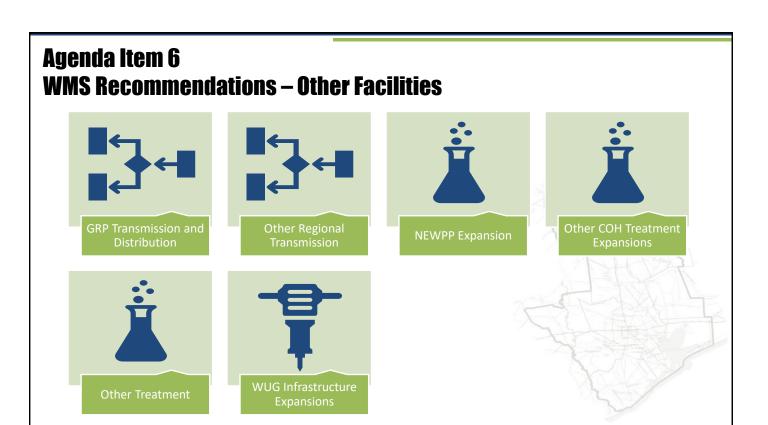




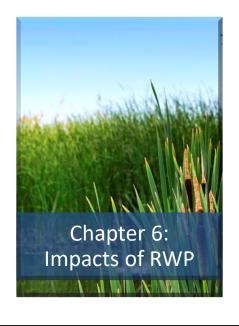




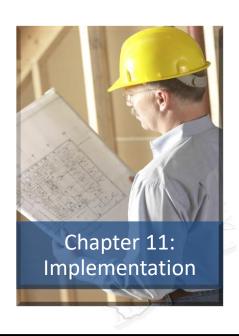




Agenda Item 6 WMS Recommendations – Related Tasks







Agenda Item 6 WMS Recommendations – Discussion and Recommendations

Discuss options for utilization of remaining unallocated Task 5 funds and consider making recommendations to the Region H Water Planning Group.



Agenda Item 7 WMS Funding Comprehensive Contractual Update / **Expanded GW** WMS Database **Cost Updates Transfers** Reallocate Regional Return Aquifer Storage **GRPs** Conservation **Brackish GW** and Recovery Flow Other Facility / **NEWPP WUG Reuse BRA SysOp IBTs** Storage Expansion

Agenda Item 7 WMS Funding Funds allocated for effort related to Water Management Strategies Task 5A Funding \$948,695 (\$482,200)4D Items Part 1 • \$118,385 remaining ■ Allocated to Region H (\$348,100)4D Items Part 2 Not yet authorized \$118,385 Remaining

Agenda Item 7 WMS Funding

Potential Item:

Review input from stakeholders and identify requests to adjust recommended WMS and projects included in the IPP. This may include addition of new projects that have not been identified to date and will require further analysis and study in order to make them eligible for inclusion in the Final RWP. Effort will include revisions to DB22 to incorporate new projects as necessary.