ACTION ITEMS
A. Election of Members

Kevin Ward
Region C Chair
Election of Members to fill expiring terms

• Terms expire Nov 2019 for approximately half of members

<table>
<thead>
<tr>
<th>Currently Held by</th>
<th>Interest</th>
<th>Seeking Re-Election</th>
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<tbody>
<tr>
<td>Chris Boyd</td>
<td>Water Utilities</td>
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<td>Chris Harder</td>
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<td>Tom Kula</td>
<td>Water Districts</td>
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<td>John Lingenfelder</td>
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<td>Steve Mundt</td>
<td>Small Business</td>
<td>Yes</td>
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<td>Bob Riley</td>
<td>Environment</td>
<td>Yes</td>
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<td>Drew Satterwhite</td>
<td>Water Districts</td>
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<td>Rick Shaffer</td>
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<tr>
<td>Richard Wagner</td>
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<tr>
<td>Tom Woodward</td>
<td>Agriculture</td>
<td>No</td>
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</tbody>
</table>
Election of Members to fill expiring terms

- Other nominations
- Vote
B. Nominating Committee for Slate of Officers for 2020

Kevin Ward
Region C Chair
C. Consider Approval of City of Springtown’s Minor Amendment to the 2016 Region C Water Plan.

Kevin Ward, Region C Chair
William Moriarty, P.E. and Tom Hoover, P.E.
Springtown Amendment to 2016 Plan

• Add a Water Treatment Plant Expansion/Upgrade to the current Water Management Strategy titled;
  • “Infrastructure Needs (Lake Intake Modifications for Lower Lake Levels).

• Increase cost of Strategy to reflect WTP costs (from $280,000 to $2.38 million)
Springtown Amendment to 2016 Plan

- RCWPG voted to support Amendment June 24 meeting
- TWDB Determined the Amendment to be “Minor”
- Minor Amendment Documentation posted 14 days prior to today’s meeting
- TWDB made minor comments
- Posting for today’s meeting included how/when public may comment
- Comment period continues 14 days after today
Springtown Amendment to 2016 Plan

- Minor changes since posting:
  - Name reverted to original minor amendment submittal
  - Added text regarding TWDB database (DB17)
  - Added updated Prioritization list of all 2016 Strategies

- If approved by RCWPG today, comments and Amendment will be submitted to TWDB after comment period
- TWDB to consider approval
D. Nomination of Representative to Interregional Planning Council

Kevin Ward, Region C Chair
Interregional Planning Council

- HB807 directed TWDB to appoint new Interregional Council
  - Improve coordination among regions
  - Facilitate dialogue regarding regional WMSs
  - Share operational best practices of planning process
  - Hold at least one public meeting
  - Prepare report to TWDB on Council’s work
- Made up of 1 member from each region
- Each region may nominate 1 or more members
- TWDB appoints from nominations
DISCUSSION ITEMS
A. Presentation on Conservation Strategies

Brian McDonald
Plummer, Inc.
Water Conservation in Region C

- Water conservation is present in four places in the Region C Water Plan:
  - Implicit:
    - Historical water demand reduction through base planning year (2011)
    - Projected passive water conservation savings
  - Explicit:
    - Active water conservation savings since 2011
    - Active water conservation during the planning period
Water Conservation in Region C

- Municipal water conservation (gpcd)
- Non-municipal water conservation
Historical Water Demand Reduction Since 2011 (Municipal)
Projected Passive Water Conservation Savings (Municipal)

- No action needed by WUGs
  - Low flow plumbing fixture rules
  - Efficient residential clothes washer standards
  - Efficient residential dishwasher standards
- Built into published water demand projections
Projected Passive Water Conservation Savings
(Municipal)
Active Water Conservation Savings Since 2011 (Municipal)

• Updated water conservation plans (2019)
  • 68 plans
• Statewide Water Conservation Quantification Project (2017)
  • 63 Region C WUGs
• TWDB summary of 2017 annual water conservation reports
  • 84 Region C WUGs
Active Water Conservation Savings Since 2011 (Municipal)
Active Water Conservation Savings During the Planning Period (Municipal)

- The Water Conservation Package is recommended for each municipal WUG:
  - Low flow plumbing fixture rules
  - Efficient residential clothes washer standards
  - Efficient residential dishwasher standards
  - Enhanced public and school education
  - Price elasticity/rate structure impacts
  - Enhanced water loss control program
  - Time-of-day irrigation restrictions
  - Water waste prohibition
  - Water conservation coordinator
  - Twice-weekly irrigation restriction
Active Water Conservation Savings During the Planning Period (Municipal)
Flexibility in Implementation

- The measures in the Water Conservation Package are suggested methods to achieve the projected water savings.
- WUGs and WWPs should not be restricted to these specific measures in their approach to achieving the projected water savings.
- Any water conservation method that is proven to result in reduced demand for water should be considered as consistent with the regional water plan for funding and permitting purposes.
Reuse of Treated Wastewater Effluent

- Considered water conservation
- Efficient use of water
  - Does not reduce overall demand
  - Does reduce demand for additional water supplies
Reuse of Treated Wastewater Effluent
Non-Municipal Water Conservation

- Water conservation built into water demand projections
- Active water conservation savings since 2011
- Active water conservation savings during planning period
Water Conservation in Demand Projections (Manufacturing)
Water Conservation in Demand Projections (Steam Electric Power)
Active Water Conservation Savings Since 2011 (Mining)

- On-site recycling of mining process water

<table>
<thead>
<tr>
<th>Projected Demand Reduction (ac-ft/yr)</th>
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<tbody>
<tr>
<td>2020</td>
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<tr>
<td>6,261</td>
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</table>
Active Water Conservation Savings During Planning Period (Non-Municipal)

- General irrigation rebate program
- On-site recycling of mining process water

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<thead>
<tr>
<th>Year</th>
<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
<th>2060</th>
<th>2070</th>
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</thead>
<tbody>
<tr>
<td>Demand Reduction (ac-ft/yr)</td>
<td>101</td>
<td>105</td>
<td>232</td>
<td>1,402</td>
<td>2,612</td>
<td>4,276</td>
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</table>
Total Region C Water Demand and Conservation and Reuse Summary

The chart shows the total region C water demand and conservation and reuse summary from 2020 to 2070. The water demand without conservation decreases from 33.0% in 2020 to 37.9% in 2070. The total conservation and reuse shows a steady increase from 33.0% in 2020 to 37.9% in 2070.

Acre-feet Per Year

- 2020: 33.0%
- 2030: 37.8%
- 2040: 39.5%
- 2050: 38.4%
- 2060: 38.3%
- 2070: 37.9%
Model Water Conservation Plans

- Municipal
- Irrigation
- Manufacturing
- Steam Electric Power
B. Major Water Provider and Regional Water Provider Plans

Simone Kiel & Abbie Gardner
Freese and Nichols, Inc.
Major and Regional Water Providers

- Entities of “particular significance” to the region’s water supply
- Six Major Water Providers
  - Tarrant Regional Water District (TRWD)
  - Dallas Water Utilities (DWU)
  - North Texas Municipal Water District (NTMWD)
  - Trinity River Authority (TRA)
  - Upper Trinity River Water District (UTRWD)
  - Fort Worth
- Two Regional Water Providers
  - Greater Texoma Utility Authority (GTUA)
  - Corsicana
Sulphur Basin Joint WMS

Supply (Acre-Feet/Year)

Marvin Nichols (328) - UTRWD
Wright Patman Reallocation - UTRWD
Marvin Nichols (328) - NTWMD
Wright Patman Reallocation - NTWMD
Marvin Nichols (328) - TRWD
Wright Patman Reallocation - TRWD
Toledo Bend Joint WMS
Tarrant Regional Water District

Demand and Supply in Acre-Feet per Year

- Toledo Bend
- Sulphur Basin Supplies
- Groundwater
- Tehuacana
- Reuse from TRA
- Cedar Creek Reuse
- Additional IPL Capacity
- ASR Pilot
- Conservation
- Currently Available Supplies
- Projected Demands
Tarrant Regional Water District

Unit Cost with Debt Service ($/kgal)

- ASR Pilot
- Additional IPL Capacity
- Cedar Creek Reuse
- Groundwater
- Sulphur Basin Supplies
- Tehuacana
- Toledo Bend
- Marvin Nichols Strategy (328)
- Oklahoma

Legend:
- Recommended Strategies
- Alternative Strategies
Dallas Water Utilities

Projected Demands
Existing Supplies
Need (Demand – Supply)

<table>
<thead>
<tr>
<th>Year</th>
<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
<th>2060</th>
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<tr>
<td>Demand</td>
<td>528,496</td>
<td>554,153</td>
<td>613,012</td>
<td>678,762</td>
<td>748,710</td>
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<td>Supply</td>
<td>508,044</td>
<td>505,463</td>
<td>500,546</td>
<td>497,018</td>
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<td>Need</td>
<td>20,452</td>
<td>48,690</td>
<td>112,466</td>
<td>181,744</td>
<td>248,462</td>
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</table>
Dallas Water Utilities

Demand and Supply in Acre-Feet per Year

- Lake Columbia
- Neches Run-of-River
- IPL
- Additional Indirect Reuse
- Conservation
- Currently Available Supplies
- Projected Demands

Years: 2020, 2030, 2040, 2050, 2060, 2070
North Texas Municipal Water District

<table>
<thead>
<tr>
<th>Year</th>
<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
<th>2060</th>
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<tr>
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<td>399,464</td>
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<td>Need (Demand – Supply)</td>
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<td>82,320</td>
<td>141,288</td>
<td>216,613</td>
<td>295,277</td>
<td>369,118</td>
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</table>
North Texas Municipal Water District

Demand and Supply in Acre-Feet per Year

- Oklahoma
- Toledo Bend
- Sulphur Basin Supplies
- Additional Lavon Watershed Reuse
- Expanded Wetland Reuse
- Additional Upper Sabine
- Additional Measures (Full Lavon)
- Additional Texoma Supplies
- Bois D'Arc Lake
- Conservation
- Currently Available Supplies
- Projected Demands & Losses
North Texas Municipal Water District
Fort Worth

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<tr>
<th>Year</th>
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<th>Existing Supplies</th>
<th>Need (Demand – Supply)</th>
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<td>282,935</td>
<td>6,639</td>
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<td>408,357</td>
<td>263,253</td>
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<td>2050</td>
<td>453,700</td>
<td>256,715</td>
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<td>2060</td>
<td>493,097</td>
<td>246,367</td>
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<td>2070</td>
<td>533,915</td>
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</table>
Fort Worth

Demand and Supply in Acre-Feet per Year

- Additional Raw Water from TRWD with Treatment Expansions
- Mary's Creek WRF Future Direct Reuse
- Village Creek WRF Future Direct Reuse
- Alliance Direct Reuse
- Conservation
- Currently Available Supplies
- Projected Demands

0 100,000 200,000 300,000 400,000 500,000 600,000

2020 2030 2040 2050 2060 2070
Fort Worth

Unit Cost with Debt Service ($/kgal)

- Alliance Direct Reuse
- Additional TRWD
- WTP Expansions
- Mary's Creek WRF Future Direct Reuse
- Village Creek WRF Future Direct Reuse

Recommended Strategies
Trinity River Authority

<table>
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<th>Year</th>
<th>Projected Demands</th>
<th>Existing Supplies</th>
<th>Need (Demand – Supply)</th>
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<tbody>
<tr>
<td>2020</td>
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<td>170,363</td>
<td>546</td>
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<td>2030</td>
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<td>2040</td>
<td>243,400</td>
<td>160,682</td>
<td>82,718</td>
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<td>2050</td>
<td>258,337</td>
<td>158,835</td>
<td>99,502</td>
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<td>2060</td>
<td>277,793</td>
<td>157,435</td>
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<td>2070</td>
<td>302,633</td>
<td>154,020</td>
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Upper Trinity Regional Water District

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<td>37,882</td>
<td>64,445</td>
<td>85,485</td>
<td>107,819</td>
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Greater Texoma Utility Authority

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<th>Projected Demands</th>
<th>Existing Supplies</th>
<th>Need (Demand – Supply)</th>
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<td>70,474</td>
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<td>2070</td>
<td>86,634</td>
<td>18,292</td>
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Greater Texoma Utility Authority

Demand and Supply in Acre-Feet per Year

- **Parallel CGMA Pipeline (NTMWD)**
- **Connection from Sherman to CGMA**
- **GTUA Regional Water System - Phase 2**
- **GTUA Regional Water System - Phase 1**
- **Conservation**
- **Currently Available Supplies**
- **Projected Demands**
Greater Texoma Utility Authority

- **Unit Cost with Debt Service ($/kgal)**

<table>
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<tr>
<th>Project Description</th>
<th>Recommended Strategies</th>
<th>Alternative Strategies</th>
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<td>Connection from Sherman to CGMA</td>
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<td>GTUA Regional Water System</td>
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<td>Grayson County Water Supply Project</td>
<td>$7.00</td>
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Corsicana

<table>
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<th>2060</th>
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<tr>
<td>Need</td>
<td>(Demand – Supply)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1,283</td>
<td>2,896</td>
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Corsicana

Unit Cost with Debt Service ($/kgal)

Conservation

8 MGD Expansion of Halbert/Richland Chambers WTP

New 8 MGD Halbert/Richland Chambers WTP

Navarro Mills WTP Expansion and Pipeline Replacement

Recommended

Alternative
C. Region C-D Coordination

Kevin Ward
Region C Chair
D. Drought Chapter

Amy Kaarlela
Freese and Nichols, Inc.
Chapter 7 - Drought

• Aug 1, 2019 letter from Drought Preparedness Council
  • Follow TWDB’s Ch 7 template
  • Develop model drought contingency plan for any use category accounting for more than 10% of demand
Chapter 7 - Drought

7.1 Drought of Record
- 1950’s for most
- 2011-2015 for Sulphur Basin
  - Chapman yield reduced 7%
  - Sulphur Basin future reservoir yields reduced 24%

7.2 Current Preparation for Drought
- Regional Coordination – standardized drought stages
- 63 Drought Plans submitted and summarized

7.3 Emergency Interconnects
Chapter 7 - Drought

• 7.4 Emergency Response to Loss of Supply
  • WUGs <7500 population & only 1 source of supply
  • Desktop analysis of Potential Emergency options

• 7.5 Drought Response Recommendations
  • Model Drought Plans for 4 use categories
Chapter 7 - Drought

• 7.6 Drought Management WMS
  • Support implementation of Drought Measures
  • No official drought strategies recommended
    • Zero reliable supply
    • Not long-term savings
    • Usually not implemented until well into drought
    • Allows for safety factor in case of demand greater than expected

• 7.7 Other Recommendations
E. Region C Website Update

Colby Walton
Cooksey Communications, Inc.
LATEST NEWS

10/7/2019
At its meeting today in Arlington, the Region C Water Planning Group considered approval of the City of Springtown’s Minor Amendment to the 2016 Region C Water Plan and took the following action...

10/7/2019
The Region C Water Planning Group today elected new members to its several existing boards on the Planning Group, including...

10/7/2019
The Region C Water Planning Group has nominated a representative to serve on the Texas Water Development Board’s (TWDB) International Planning Council. The Group’s purpose is to improve coordination among the Regional Water Planning Groups (RWPGs) and between the TWDB and the RWPGs on the state water planning process...

10/2/2019
The Region C Water Planning Group will hold its annual meeting on October 3, 2019, in Arlington, as part of the fifth round of regional water planning for North Central Texas...

NEXT MEETING

OCTOBER 7, 2019
North Central Texas Council of Governments, 610 Six Flags Drive,
Corporal Tye Buikstra, First Floor Transportation Council
Room, Arlington, Texas 76011

The Region C Water Planning Group will hold its annual meeting as part of its continued work on the fifth round of regional water planning, in furtherance of the development of a 2021 Region C Water Plan.

LATEST UPDATES

05/30/2019
Meeting Agenda (short version) Updated to include how the public may comment on the Springtown Minor Amendment

05/30/2019
Meeting Agenda (expanded version) Updated to include how the public may comment on the Springtown Minor Amendment

05/30/2019
E. Minutes from June 24, 2019 Region C Public Meeting

05/30/2019
R.D. Letter from TWDB regarding new Interregional Planning Council

05/30/2019
R.C. Springtown Minor Amendment

WATER IS AWESOME.
Use it. Enjoy it. Just don’t waste it.
Planning for North Central Texas’ future prosperity and quality of life

2016 REGION C WATER PLAN

2016 PLAN EXECUTIVE SUMMARY

REGION C WATER PLANNING BROCHURE
**LATEST NEWS**

10/7/2019  
At its meeting today in Arlington, the Region C Water Planning Group considered approval of the City of Springtown’s Minor Amendment to the 2016 Region C Water Plan and took the following action...

10/7/2019  
The Region C Water Planning Group today elected new members to fill several expiring terms on the Planning Group, including...

10/7/2019  
The Region C Water Planning Group has nominated a representative to serve on the Texas Water Development Board’s (TWDB) Interregional Planning Council. The Council’s purpose is to improve coordination among the Regional Water Planning Groups (RWPGs), and between the RWPGs and the TWDB in meeting goals of the state water planning process...

10/2/2019  
The Region C Water Planning Group will hold a public meeting on October 7, 2019, in Arlington, as part of the fifth round of regional water planning for North Central Texas...

**LATEST UPLOADS**

<table>
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<th>Title</th>
<th>Notes</th>
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<tr>
<td>9/23/2019</td>
<td>Meeting Agenda (short version) Updated to include how/when the public may comment on the Springtown Minor Amendment</td>
<td>Agenda</td>
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<tr>
<td>9/23/2019</td>
<td>Meeting Agenda (expanded version) Updated to include how/when the public may comment on the Springtown Minor Amendment</td>
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<tr>
<td>9/23/2019</td>
<td>II. Minutes from June 24, 2019 Region C Public Meeting</td>
<td>Meeting Minutes</td>
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<tr>
<td>9/23/2019</td>
<td>III.C. Springtown Minor Amendment</td>
<td>General</td>
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F. Chapter 8 Legislative Updates

Ellen McDonald
Plummer, Inc.
Task 8 Update

- Key Task 8 Items
  - Recommendation for designation of river and stream segments of unique ecological value
  - Recommendation for unique sites for reservoir construction
  - Legislative and policy recommendations
Designation of River and Stream Segments of Unique Ecological Value

• Task 8 subcommittee established; met on August 20, 2018
  • No river or stream segments recommended as ecologically unique because of continuing unresolved concerns regarding the implications of such a designation

• Consistent with recommendation from previous Region C plans

• Recommendation was formally approved by the planning group on February 25, 2019.
Unique Sites for Reservoir Construction

• Task 8 subcommittee recommendation
  • Continue to designate following sites as unique sites
    • Ralph Hall
    • Lower Bois d’Arc Creek
    • Marvin Nichols
    • Tehuacana
    • Fastrill
    • Columbia
  • Continue to recommend that Texas Legislature designate George Parkhouse (North) as an additional unique site for reservoir construction
  • Encourage continued affirmative actions by sponsors of these reservoirs to make expenditures to construct or apply for permits to preserve the designations
• Recommendation was formally approved by the planning group on February 25, 2019.
Legislative and Policy Recommendations

- **Regional Water Planning Process**
  - Encourage formation of a Working Group on Stream Segments of Unique Ecological Value
  - Support legislative and state agency findings regarding water use evaluation
  - Allow waivers of plan amendments for entities with small strategies.
  - Coordination between TWDB and TCEQ to determine the appropriate data and tools for use in regional water planning and in permitting.
Legislative and Policy Recommendations

- **Regional Water Planning Process (cont’d)**
  - TWDB’s recognition of Region C’s designation of the Sulphur River Basin Authority as a wholesale water provider in the regional water planning process.
  - Provide clear separation between regional water plans and regional flood plans.
  - Eliminate supplemental requirements added to the regional water plans after contracts have been executed, when additional funding is not provided.
Legislative and Policy Recommendations

• **TCEQ Policy and Water Rights**
  • Legislature should remove some of the unnecessary barriers to interbasin transfers.
  • Support recent changes to water code that exempt certain water right permits from cancellation for non-use.
Legislative and Policy Recommendations

- **State Funding and Water Supply Programs**
  - Continue and expand state funding for TWDB SWIFT, WIF, and other loans and programs.
  - Expand eligibility for SWIFT funding to include consistency with adopted regional water plans.
  - More state funding for water conservation efforts.
  - State funding for reservoir site acquisition.
  - Consider alternative financing arrangements for large projects.
  - Adequate funding of Groundwater Conservation Districts
  - Funding for NRCS structures as a form of watershed protection
Legislative and Policy Recommendations

• **Water Reuse and Desalination**
  - Support research to advance reuse and desalination
  - Funding assistance for desalination and water reuse projects.
Legislative and Policy Recommendations

- **State and Federal Program – Water Supply Issues**
  - Continued and increased State support for efforts to develop water supplies from Oklahoma.
  - Oversight of Groundwater Conservation District rule making.
  - Revise Federal Section 316(b) regulations on power plant cooling water.
  - Reallocation of storage in and maintenance of Federal reservoirs.
  - Funding of long-range Federal water supply projects.
  - Support ongoing efforts of state agencies to develop additional data and information related to evaluating the feasibility of ASR projects.

NEW!
Other Discussion

A. Updates from the Chair
B. Report from Regional Liaisons
C. Report from Texas Water Development Board
Region C TWDB Update Oct 7, 2019

Recent Communications from TWDB

• TWDB Guidance related to HB807 (June 25, 2019)

• TWDB Planning Data Dashboard (July 10, 2019)

• RWPG Chairs Conference Call Meeting (August 28, 2019)

• Drought Preparedness Council recommendations and drought contingency plan selection spreadsheet provided to RWPGs (September 4, 2019)

• Socio-economic impact analysis reports issued by end of 2019
The 86th Texas Legislature: Updates Relevant to Regional Water Planning*

Kevin Smith
Water Use, Projections, & Planning
Texas Water Development Board
October 7, 2019

*Unless specifically noted, this presentation does not necessarily reflect official Board positions or decisions.
House Bill 807

- **Texas Water Code (TWC) §16.053(e)(3)(E)** — Unnecessary or counterproductive variations in drought response strategies

- **TWDB Guidance**
  - *RWPGs should review information collected through current requirements outlined in 31 TAC §357.42(c) and (i) and Section 7.5 of Exhibit C.*
  - *Drought response strategies determined to be “unnecessary or counterproductive” should be documented in Chapter 7 of the RWP.*
House Bill 807

- **TWC §16.053(e)(10)** — Specific assessment of Aquifer Storage and Recovery (ASR) potential if significant identified needs

- **TWDB Guidance**
  - *The threshold(s) for “significant” identified water needs are to be defined by the RWPG.*
  - *RWPGs must clearly articulate in their RWP how they determined the threshold of significant water needs for this requirement.*
  - *If significant needs, the RWPG shall generally assess ASR potential to the best of its ability.*
  - *TWDB has provided a list of the agency’s currently available and relevant information on ASR for the RWPGs to consider.*
House Bill 807

• **TWC §16.053(e)(11)** — Setting Gallons Per Capita Daily (GPCD) goal(s) for each planning decade

• **TWDB Guidance**
  – *TWDB will provide a list of municipal WUGs in each RWPG as well as supporting information.*
  – *GPCD goals may be a specific GPCD, or ranges of GPCD; may be based on specific municipal WUGs, or groupings of municipal WUGs as determined appropriate by the RWPG.*
  – *To be included in Subchapter 5B of the RWP.*
House Bill 807

• TWC §16.053(e)(12) — Assess progress of “regionalization”
• TWDB Guidance
  – RWPGs shall include documentation of the RWPG’s general assessment of progress of the RWPA in encouraging cooperation between WUGs for the purpose of achieving economies of scale and otherwise incentivizing strategies that benefit the entire region.
  – To be included in Chapter 11 of the RWP.
House Bill 807

• TWC §16.053(i) — Recommendations on process improvements
• TWDB Guidance
  – RWPGs should include any legislative recommendations that members of the planning group believe would improve the regional and state water planning process.
  – To be included in Chapter 8 of the RWP.
Questions?

TWDB is hiring!
http://www.twdb.texas.gov/jobs/index.asp

Kevin Smith
Project Manager
Water Use, Projections, & Planning
Texas Water Development Board
Kevin.Smith@twdb.texas.gov
(512) 475-1561
Other Discussion

D. Report from Texas Department of Agriculture
E. Report from Texas Parks and Wildlife Department
F. Report from Texas State Soil & Water Conservation Board
G. Other Reports
Other Discussion

H. Confirm Date and Location of Next Meeting
I. Public Comments
Adjournment
Thank you for attending.

Materials are available at
www.regioncwater.org