



Meeting AGENDA

**November 9, 2018 10:00 a.m.
City of Elmendorf City Hall
8304 FM 327, Elmendorf, Texas 78112**

1. Introductions and Certification of a Quorum by the Secretary
2. Approval of the Minutes from August 17, 2018
3. Discussion and Appropriate Action Regarding the Membership of Cibolo Valley Local Government Corporation
4. South Central Texas Regional Water Planning Group (SCTRWPG)
Administrative Update and Recap of May 9, 2018, Meeting
5. Discussion and Appropriate Action Regarding a 2019 Regional Water Alliance Workshop
6. Location and Date of Next Regional Water Alliance Meeting
7. Future Items for Consideration
8. Adjourn

1. Introductions and Certification of a Quorum by the Secretary

2. Approval of the Minutes from August 17, 2018



REGIONAL WATER ALLIANCE

Council of Representatives MEETING MINUTES

**August 18, 2018 10:00 a.m.
SS Water Supply Corporation
10393 US-87, La Vernia, TX 78121**

Council of Representatives Present:

Brandon Rohan
Mike Taylor
Humberto Ramos
Avery Lunsford
Alan Cockerell
Pat Allen
Angelica Amezcuita
Patrick Sullivan
Stephen Mayfield
Devan Herrera
Michael Urrutia
Herb Williams
Graham Moore

East Central SUD
Crystal Clear SUD
Canyon Regional Water Authority
City of Universal City
Schertz-Seguin LGC
Green Valley SUD
McCoy WSC
City of Alamo Heights
City of Elmendorf
Springs Hill WSC
Guadalupe-Blanco River Authority
SS Water Supply Corporation
Alliance Regional Water Authority

Guests & Administrative:

Cole Ruiz
Amber Beard
Travis Ramos
Jorb Carson

San Antonio River Authority
Schertz-Seguin LGC
Allen Plummer Associates, Inc.
Crystal Clear SUD

AGENDA ITEM NO. 1: Introductions and Certification of a Quorum by the Secretary

A quorum was established for this meeting.

AGENDA ITEM NO. 2: Approval of the Minutes from the May 18, 2018 Regional Water Alliance Meeting

Pat Allen asked for a motion to approve the minutes being considered under Agenda Item 2. Mike Taylor moved to approve the minutes from the March 2, 2018 meeting of the Regional Water Alliance (RWA). Avery Lunsford seconded the motion. The motion passed by consensus.

AGENDA ITEM NO. 3: Region L Administrative Update and Recap of the August 2, 2018 Meeting

Cole Ruiz, reported to the RWA that the most recent Region L meeting was held on Thursday, August 2, 2018, and reviewed what transpired at the meeting.

Mr. Ruiz reviewed the process by which new members were selected by the Region L Planning Group to fill vacant or expiring terms on the Region L Planning Group. The following individuals were selected to begin serving or continue serving for a five-year term on the Planning Group in their respective interest categories:

1. Dianne Wassenich to represent the Public
2. Will Conley to represent Counties
3. Ian Taylor to represent Municipalities
4. Glenn Lord to represent Industries
5. Tom Jungman to represent Agriculture
6. Suzanne Scott to represent River Authorities
7. Roland Ruiz to represent Water Districts
8. Greg Sengelmann to represent Water Districts
9. Tim Andruss to represent Water Districts
10. Humberto Ramos to represent Non-Groundwater Conservation District Water Districts
11. Steve Ramsey to represent Water Utilities
12. Alan Cockerell to represent Water Utilities

Two vacancies remained in the Small Business interest category. Mr. Ruiz encouraged RWA members to send in any nominations that might fill the Small Business category need on the Region L Planning Group.

Mr. Ruiz summarized the update given to the Region L Planning Group on May 3, 2018, which detailed the status of ongoing procurement for studies to validate the environmental flows for the Guadalupe, San Antonio, Mission, and Aransas Rivers and Mission, Copano, Aransas and San Antonio Bays Basin and Bay Area Stakeholder Committee.

Mr. Ruiz informed the RWA that Elizabeth McCoy would be the new liaison between the TWDB and the Planning Group moving forward.

Mr. Ruiz reviewed the Region L Fifth Cycle planning schedule, a copy of which was provided in the agenda packet.

Mr. Ruiz also brief the RWA on an amendment to the adopted population and water demand projections, which was approved at the August 2, meeting. At its November 3, 2017, meeting, the Planning Group had authorized the SARA and the Consultant (Black & Veatch) to submit a revision request to the TWDB, after having reviewed TWDB's draft population and demand projections. That revision request was submitted on January 10, 2018. Any revision requests to the population and water demand projections that occurred after the TWDB deadline of January 12, 2018 would trigger an amendment process, whereby approval of the SCTRWPG and subsequently the TWDB was required. At the August meeting, Mr. Perkins presented the amendment request, which included revisions to the steam-electric water demand projections for Guadalupe County, and the population and GPCD (Gallons Per Capita Daily) demand projections for the City of Cibola and Green Valley Special Utility District. The amendment was ultimately approved by the Planning Group, but would require approval by TWDB (Board of Directors).

Mr. Ruiz also explained that the Technical Memorandum, which is required by TWDB, and is considered to be a snap-shot in time of the status of the Planning Group progress. At the August 2, meeting the Planning Group authorized the Technical Consultant to submit the Technical

Memorandum in accordance with TWDB rules.

Lastly, Mr. Ruiz informed the RWA that the Planning Group authorized the Technical Consultant to develop scopes and fee estimates for the following water management strategies: 1) Advanced Water Conservation; 2) Drought Management; 3) Edwards Transfers; 4) Local Groundwater; 5) Local Carrizo Conversions; 6) Surface Water Rights; 7) Balancing Storage; 8) Facilities Expansion; 9) Recycled Water Strategies; 10) Expanded Local Carrizo (SAWS); and 11) Expanded Brackish Groundwater (SAWS).

The Planning Group meeting was scheduled for November 1, 2018 at 9:30 AM.

AGENDA ITEM NO. 4: Location of Next, 2018 Regional Water Alliance Meeting

The next meeting is scheduled for 10:00 AM on November 9, 2018, and will be held at the City of Elmhendorf City Hall.

AGENDA ITEM NO. 5: Future Items for Consideration

Members expressed interest in holding a workshop in 2019. There was some discussion about what that workshop would entail. Members generally agreed to talk about this at a future meeting.

Adjourned.

MINUTES RECOMMENDED FOR APPROVAL BY THE SECRETARY.

Avery Lunsford, Secretary

3. Discussion and Appropriate Action Regarding the Membership of Cibolo Valley Local Government Corporation

4. South Central Texas Regional Water Planning Group (SCTRWPG) Administrative Update and Recap of May 9, 2018, Meeting



c/o San Antonio River Authority
100 East Guenther Street
San Antonio, Texas 78204
(210) 227-1373 Office
www.RegionLTexas.org

EXECUTIVE COMMITTEE

Suzanne Scott

Chair / River Authorities

Tim Andruss

Vice-Chair / Water Districts

Gary Middleton

Secretary / Municipalities

Kevin Janak

At-Large / Electric Generating Utilities

Adam Yablonski

At-Large / Agriculture

VOTING MEMBERS

Pat Calhoun

Counties

Alan Cockerell

Water Utilities

Rey Chavez

Industries

Will Conley

Counties

Curt Campbell

GMA 9

Charlie Flatten

Environmental

Vic Hilderbran

GMA 7

Tom Jungman

Agriculture

Russell Labus

Water Districts

Glenn Lord

Industries

Dan Meyer

GMA 10

Con Mims

River Authorities

Kevin Patteson

River Authorities

Iliana Peña

Environmental

Robert Puente

Municipalities

Humberto Ramos

Water Districts

Steve Ramsey

Water Utilities

Weldon Riggs

Agriculture

Roland Ruiz

Water Districts

Diane Savage

GMA 13

Greg Sengemann

Water Districts

Heather Sumpter

GMA 15

Thomas Taggart

Municipalities

Ian Taylor

Municipalities

Dianne Wassenich

Public

Vacant

Small Business

Vacant

Small Business

DATE: Wednesday, October 25, 2018

TO: Members of the South Central Texas Regional Water Planning Group

FROM: Steven J. Raabe, P.E.

The schedule and location of the meeting of the South Central Texas Regional Water Planning Group is as follows:

TIME AND LOCATION

Thursday, November 1, 2018

9:30 a.m.

San Antonio Water System

Customer Service Building

Room CR C145

2800 US Highway 281 North

San Antonio, Bexar County, Texas 78212

Enclosed is a copy of the posted public meeting notice.

Steven J. Raabe, P.E.

Enclosure

Agenda Packet for November 1, 2018

NOTICE OF OPEN MEETING OF THE
SOUTH CENTRAL TEXAS REGIONAL
WATER PLANNING GROUP

TAKE NOTICE that a meeting of the South Central Texas Regional Water Planning Group as established by the Texas Water Development Board will be held on Thursday, November 1, 2018, at 9:30 AM at San Antonio Water System (SAWS), Customer Service Building, Room CR 145, 2800 US Highway 281 North, San Antonio, Bexar County, Texas. The following subjects will be considered for discussion and/or action at said meeting.

1. Public Comment
2. Approval of the Minutes from the August 2, 2018, Meeting of the South Central Texas Regional Water Planning Group (SCTRWPG)
3. Status of Edwards Aquifer Habitat Conservation Plan (EAHCP), and Introduction of Program Manager of the EAHCP, Scott Storment
4. Discussion and Appropriate Action Regarding the Selection of Voting Members to Fill Vacancies in Following Interest Category: Small Business (2)
5. Discussion and Appropriate Action Authorizing the San Antonio River Authority (SARA) to Solicit Nominations to Fill Remaining Vacant SCTRWPG Voting Member Seat, and to Post Public Notice in Accordance with the SCTRWPG Bylaws
6. Discussion and Appropriate Action Setting the Schedule for Calendar Year 2019 Meetings of the SCTRWPG
7. Status of Guadalupe, San Antonio, Mission, and Aransas Rivers and Mission, Copano, Aransas, and San Antonio Bays Basin and Bay Stakeholder Committee (BBASC) and Expert Science Team (BBEST)
8. Texas Water Development Board (TWDB) Communications
9. Chair's Report
10. Discussion and Appropriate Action Regarding the Consultant's Work and Schedule
11. Discussion and Appropriate Action Authorizing the Consultant and/or the Administrator to Submit a Hydrologic Variance Request to the TWDB
12. Discussion and Appropriate Action to Set a Deadline for Population and Water Demand Projection Amendment Requests and Supporting Materials for the 2021 South Central Texas Regional Water Plan
13. Discussion and Appropriate Action Authorizing the San Antonio River Authority (SARA) to Request a Notice-to-Proceed from the TWDB; authorizing the Consultant and/or SARA

to work with the TWDB on any follow up information that might be required; and authorizing SARA to Negotiate and Execute the Subsequent TWDB Contract Amendment that will be Issued Following the Notice-to-Proceed.

14. Discussion and Appropriate Action Identifying Potential Water Management Strategies

15. Possible Agenda Items for the Next Region L Meeting

16. Public Comment

6. Discussion and Appropriate Action Setting the Schedule for Calendar Year 2019 Meetings of the SCTRWPG

Proposed South Central Texas Regional Water Planning Group
Meeting Schedule for Calendar Year 2019

1. Thursday, January 31, 2019
2. Thursday, May 2, 2019
3. Thursday, August 1, 2019
4. Thursday, November 7, 2019

7. Status of Guadalupe, San Antonio, Mission, and Aransas Rivers and Mission, Copano, Aransas, and San Antonio Bays Basin and Bay Stakeholder Committee (BBASC) and Expert Science Team (BBEST)

Assessing the Effects of Freshwater Inflows and Other Key Drivers on the Population Dynamics of Oysters and Sport Finfish in Three Estuaries (Colorado-Lavaca, Guadalupe-San Antonio/Mission-Aransas, and Nueces)

- The contractor (UTMSI) is finishing up Phase II of this work from the previous biennium (FY16-17), a contract which was extended to August 31, 2018 due to Hurricane Harvey related delays. Though the contract has now expired, the contractor is still delayed in providing a draft report. Dr. Scheef anticipates a final draft report will be available by the end of November, at which time a 60-day review period will begin. This allows 30 days for the TWDB and interested BBASC/BBEST members to review the report and provide comments and 30 days for the contractor to incorporate the comments into a final report. An interagency contract for Phase III will not be negotiated until the Phase II work is completed satisfactorily. Given the dwindling time in which to encumber the FY18-19 funds (must be before end of August 2019) and the time needed to negotiate and execute a contract (could take up to 120 days), the TWDB would like the BBASC to consider how to proceed with the funds earmarked for the continuation of this work. Please talk with Suzanne about the options we discussed for proceeding and let us know how the BBASC would like to proceed. As we discussed, the BBASC could consider funding a different priority work plan project if they choose. Suzanne may also choose to speak with the other BBASC chairs given this project was scoped as a multi-basin study. Please contact me for further discussion on this topic if needed.

Environmental Flows Validation in Three River Basins (Brazos, Colorado-Lavaca, and Guadalupe-San Antonio)

- A contract is being negotiated with the top-ranked candidate from the request for qualifications process.

Guadalupe Delta Ecological Assessment of Freshwater Inflows

- EXECUTED - TWDB Contract #1800012267. Interagency contract with GBRA has been executed. A kickoff meeting via webinar with GBRA and their subcontractor (BioWest) is scheduled for Thursday, November 11, 2018 from 9:30-11:00 a.m. If any member of the BBASC/BBEST is interested in attending, please let us know and we will send a meeting invite.

Nutrient and Sediment Monitoring in Four Lower River Basins (Trinity-San Jacinto, Colorado-Lavaca, Guadalupe-San Antonio, and Nueces)

- Contract will be negotiated upon completion of the existing contract with USGS for nutrient and sediment monitoring, which was extended to May 31, 2019.

Using Comparative Long-Term Benthic Data for Adaptive Management of Freshwater Inflow to Three Estuaries (Colorado-Lavaca, Guadalupe, and Nueces)

- EXECUTED - TWDB Contract #1800012223. Interagency contract with Harte Research Institute was executed and work is in progress.

Influence of Freshwater Inflow Gradients on Estuarine Nutrient-Phytoplankton Dynamics in the Three Estuaries (Guadalupe, Nueces, and upper Laguna Madre)

- EXECUTED - TWDB Contract #1800012228. Interagency contract with Texas A&M University – Corpus Christi was executed and work is in progress.

Statewide Synthesis of Environmental Flow Studies from 2014 - 2017

- A contract is being negotiated with the top-ranked candidate from the request for qualifications process.

8. Texas Water Development Board (TWDB) Communications

9. Chair's Report

Agenda: RWPG Chairs' Conference Call October 22, 1:30 pm

Call in number: 877-226-9790

Access code: 9101076#

- 1. Introductions, Opening Comments, and Agenda Order** (Sarah Backhouse – 5 mins)
- 2. Conservation Planning Tool** (John Sutton – 10 mins)
 - a) Background and overview of tool and timeline
 - b) Chair's feedback
- 3. 5th cycle initiatives and general timelines** (Sarah Backhouse – 15 mins) **[Handout A]**
 - a) Updated working schedule
 - b) Technical memorandums
 - c) Uniform costing tool/drought management tool
 - d) SWP amendment #3
 - e) General reminders
 - f) Chair's feedback
- 4. Interregional Coordination and Data Sharing Tools** (Sarah Backhouse/Sabrina Anderson – 10 mins)
 - a) DB22 overallocation checks
 - b) Source balance/shared source reports
 - c) Data visualization maps
 - d) Shared regional projects
 - e) Chair's feedback
- 5. Socioeconomic Impact Analysis and Timeline** (Yun Cho – 10 mins)
 - a) Peer review of methodology
 - b) RWPG comment period
 - c) Process and timing for TWDB to provide socioeconomic impact reports
 - d) Chair's feedback
- 6. Uniform Standards Stakeholder Committee** (Temple McKinnon – 10 mins)
 - a) Update on planning/logistics of the November 28 meeting
 - b) Chair's feedback
- 7. Regional Round Robin** (Chairs – 15 mins)
 - a) Region highlight from Chair's
- 8. Wrap-up and next call topics and date** (Sarah Backhouse – 5 mins)

Handout A: [Working Timeline for the Fifth Cycle of Regional Water Planning](#)

PROJECT NAME:

PROJECT SPONSOR:

Overall Criteria Weightings:

Decade of Need	40%
Project Feasibility	10%
Project Viability	25%
Project Sustainability	15%
Project Cost Effectiveness	10%
	100%

potential SWIFT funding category	flag all that may apply
mainstream	
rural/agricultural conservation	
conservation/reuse	

**** indicates that additional data may have to be collected by RWPG in order to score projects**

		Max Score	Actual Score
1. Decade of Need for Project			
A	What is the decade the RWP shows the project comes online?	10	0
Points	Year		
0	2060		
2	2050		
4	2040		
6	2030		
8	2020		
10	2010		
** B	In what decade is initial funding needed?	10	0
Points	Year		
0	2060		
2	2050		
4	2040		
6	2030		
8	2020		
10	2010		
Criteria Total		20	0

2. Project Feasibility		Max Score	Actual Score
A What supporting data is available to show that the quantity of water needed is available?		5	0
<u>Points</u>	<u>Measure</u>		
0	Models suggest insufficient quantities of water or no modeling has been performed		
3	Models suggest sufficient quantity of water		
5	Field tests and measurements confirm sufficient quantities of water		
** B If necessary, does the sponsor hold necessary legal rights, water rights and/or contracts to use the water that this project would require?		5	0
<u>Points</u>	<u>Measure</u>		
0	legal rights, water rights and/or contract application not submitted		
2	application submitted		
3	application is administratively complete		
5	legal rights, water rights and/or contracts obtained or not needed		
** C What level of engineering and/or planning has been accomplished for this project? (Points based on progress on scientific data collection, stage of studies and design)		10	0
<u>Points</u>	<u>Measure</u>	<u>Points</u>	<u>Measure</u>
1	Project idea is outlined in Regional Plan.	6	Preliminary engineering report initiated.
2	Feasibility studies initiated.	7	Preliminary engineering report completed.
3	Feasibility studies completed.	8	Preliminary design initiated.
4	Conceptual design initiated.	9	Preliminary design completed.
5	Conceptual design completed.	10	Final design complete.
D Has the project sponsor requested (in writing for the 2016 Plan) that the project be included in the Regional Water Plan?		5	0
<u>Points</u>	<u>Measure</u>		
0	no		
5	yes		
Criteria Total		25	0

3. Project Viability

Max
Score

Actual
Score

For A and B, the calculation is to be based on the total needs of all WUGs receiving water from the project.

- A In the decade the project supply comes online, what is the % of the WUG's (or WUGs') needs satisfied by this project?

10

0.00

0.00 %

- B In the final decade of the planning period, what is the % of the WUG's (or WUGs') needs satisfied by this project?

10

0.00

0.00 %

- C Is this project the only economically feasible source of new supply for the WUG, other than conservation?

5

0

Points Measure

0 no

5 yes

- D Does the project serve multiple WUGs?

5

0

Points Measure

0 no

5 yes

Criteria Total

30

0

4. Project Sustainability

- ** A Over what period of time is this project expected to provide water (regardless of the planning period)?

10

0

Points Measure

5 less than or equal to 20 years

10 greater than 20 years

- B Does the volume of water supplied by the project change over the regional water planning period?

5

0

Points Measure

0 decreases

3 no change

5 increases

Criteria Total

15

0

5. Project Cost Effectiveness

Max
Score Actual
Score

A What is the expected unit cost of water supplied by this project compared to the median unit cost of all other recommended strategies in the region's current RWP? (Project's Unit Cost divided by the median project's unit cost)

5

0

Points	Relative to Median unit cost
0	200% or greater than median
1	150% to 199% of median
2	101% to 149% of median
3	100% of median
4	51% to 99% of median
5	0% to 50% of median

Criteria Total

5

0

SCORING RESULTS ON SCALE OF 1,000 POINTS MAXIMUM:

sub-score for: Decade of Need
sub-score for: Project Feasibility
sub-score for: Project Viability
sub-score for: Project Sustainability
sub-score for: Project Cost Effectiveness

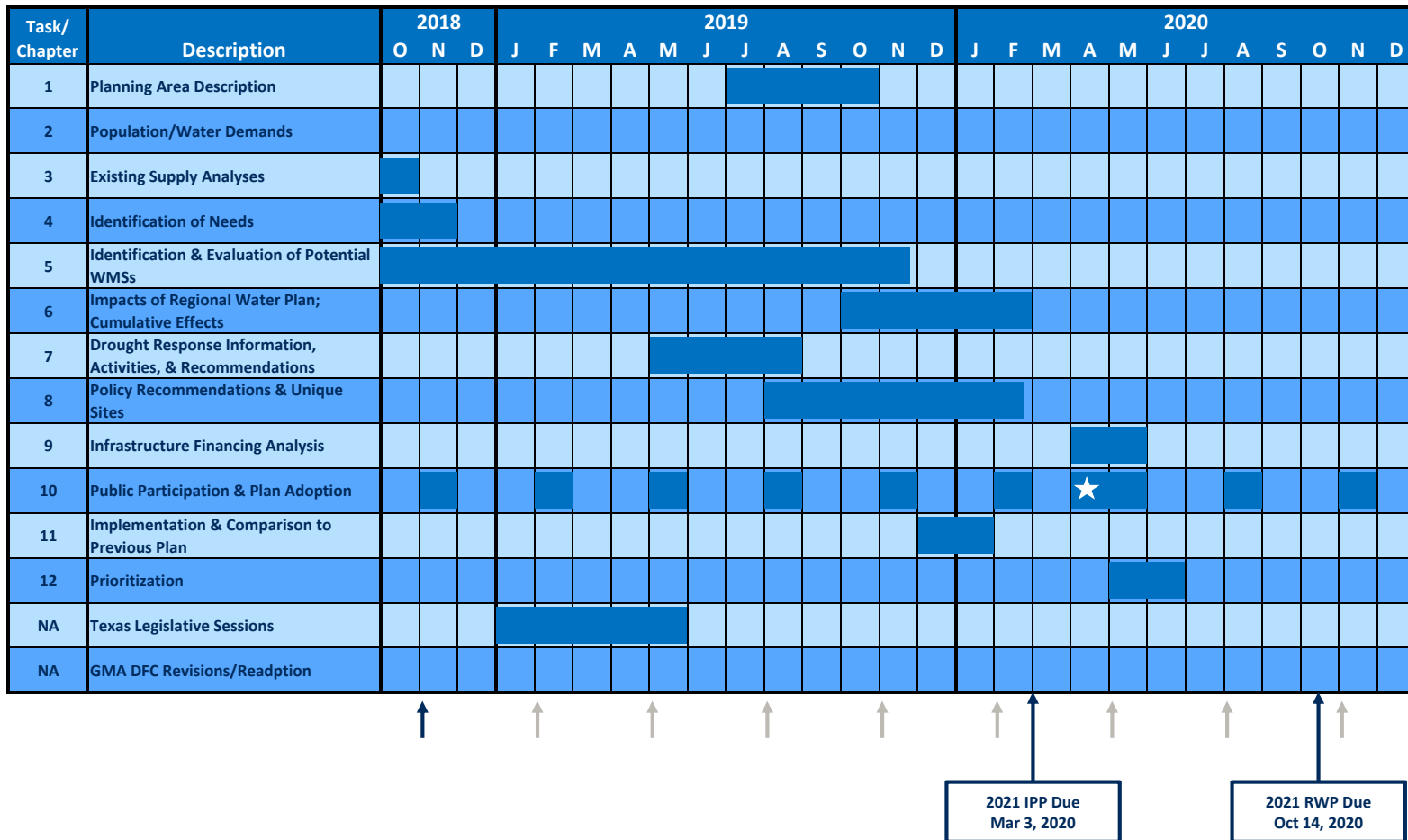
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FINAL SCORE FOR PROJECT

0
0

10. Discussion and Appropriate Action Regarding the Consultant's Work and Schedule

2021 South Central Texas Regional Water Plan
Estimated Schedule
November 2018 RWPG Meeting



KEY:

- Scheduled Region L Meetings
- Anticipated Region L Meetings
- Public Hearing(s) on 2021 IPP
- Anticipated Activity

11. Discussion and Appropriate Action Authorizing the Consultant and/or the Administrator to Submit a Hydrologic Variance Request to the TWDB

BUILDING A WORLD OF DIFFERENCE

November 1, 2018

Request to Model Canyon Reservoir on Daily Basis

November 2018 SCTRWPG Meeting

BUILDING A WORLD OF DIFFERENCE®




Canyon Reservoir

- Permitted: 120,000 acft/yr in any given year; 5-yr average = 90,000 acft/yr
- Contracts: ~90,000 acft/yr

- 2016 RWP/2017 SWP Firm Yield (2070) = 88,400 acft/yr

Delta = ~13,400 acft/yr

- Draft 2021 RWP Firm Yield (2070) = 74,980 acft/yr



2016 vs 2021 Canyon Reservoir Existing Supply

- | | |
|---|--|
| <ul style="list-style-type: none"> • 2016 RWP <ul style="list-style-type: none"> • Daily Simulation <ul style="list-style-type: none"> • Daily Step-Out Module • Federal Energy Regulatory Commission / Spring Branch Drought Trigger • Guadalupe River Trout Unlimited • Water Rights As Operated <ul style="list-style-type: none"> • Comal County Agreement • 2011 Effluent (Only ~2,000 acft/yr) | <ul style="list-style-type: none"> • 2021 RWP <ul style="list-style-type: none"> • Monthly Simulation of Canyon • Simplistic Water Right Breakout • No Effluent (Only ~2,000 acft/yr) |
|---|--|

Effluent only accounts for 2,000 acft/yr of the 13,000 acft/yr difference. The remaining delta is attributed to Daily vs Monthly simulation.

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Proposal

- For the purposes of establishing Canyon Reservoir's Existing Supply quantity ONLY
- Use the "Region L WAM", in order to make daily estimate of Canyon Reservoir firm yield.
- No Effluent Used
- No other changes to any other water rights
- Provides yield closer in line with actual firm yield and in line with operations.

Estimated Canyon Reservoir Firm Yield = ~86,000 acft/yr (To Be Verified)

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Process

- Amend Hydrologic Assumptions/Variance (RWPG Action)
 - Request to use alternate model; For Canyon Reservoir Existing Supply Only
- Submit to TWDB for approval
- Simulate Canyon Reservoir Firm Yield using Daily Step-Out
- Revise Existing Supplies/Needs and Database



13. Discussion and Appropriate Action Authorizing the San Antonio River Authority (SARA) to Request a Notice-to-Proceed from the TWDB; authorizing the Consultant and/or SARA to work with the TWDB on any follow up information that might be required; and authorizing SARA to Negotiate and Execute the Subsequent TWDB Contract Amendment that will be Issued Following the Notice-to-Proceed.

Water Management Strategy Evaluations:
Block 1 Scope and Fee Estimates
Draft October 15, 2018

Advanced Water Conservation

\$15,000

Advanced water conservation goal estimates will be produced for all municipal Water User Groups (WUGs) in Region L, using the methodology established during previous planning cycles. For WUGs that identify specific water conservation practices, the TWDB Conservation Planning Tool will be applied. AMI Infrastructure strategies will be identified for WUGs interested in this conservation method. The evaluation will include costs and estimates of potential water savings, and will be documented.

Drought Management

\$10,000

For municipal WUGs with Needs in the first decade of the planning cycle, an estimate of water savings will be determined due to drought management measures. The TWDB will be providing a Drought Management Impact Estimating Tool that will be reviewed versus the methodology employed during the 2016 planning cycle. The evaluation will include costs and estimates of potential water savings, and will be documented.

Edwards Transfers

\$5,000

For WUGs in which their sole source of water is Edwards Aquifer groundwater and their most logical strategy is acquisition of additional Edwards Aquifer groundwater supplies, Region L will investigate the sale or lease of Edwards Aquifer groundwater between willing buyers and willing sellers to meet the Needs of each WUG. The information will be summarized in a Water Management Strategy evaluation.

Local Groundwater

\$20,000

For WUGs in which groundwater is their sole source of water, and additional groundwater development is the most logical strategy, Region L will estimate the number of additional wells, timing (decade), and cost associated with the addition of new groundwater capacity to meet each WUGs Needs. The information will be summarized in a Water Management Strategy evaluation.

Local Carrizo Conversions

\$5,000

For WUGs in which their sole source of water is Carrizo-Wilcox Aquifer groundwater and their most logical strategy is acquisition of additional Carrizo-Wilcox Aquifer groundwater supplies, Region L will investigate the sale or lease of Carrizo-Wilcox Aquifer groundwater between willing buyers and willing sellers to meet the Needs of each WUG. The information will be summarized in a Water Management Strategy evaluation.

Surface Water Rights **\$5,000**

The planning group is aware that existing surface water right permits/certificates of adjudication are acquired by WUGs within the Region L Planning Area. Once acquired, those water rights often require change in use type or diversion location. This Water Management Strategy serves as documentation of the planning group's acknowledgement of this, and seeks to facilitate that process with TCEQ. Information will be gathered about the current state of water right acquisitions in the region and document the information in a Water Management Strategy evaluation.

Balancing Storage **\$5,000**

The planning group is aware that the use of existing surface water supplies/strategies sometime requires balancing storage at the end of long transmission pipelines in order to keep the cost of transmission down, while allowing flexibility in the use of the water to meet peak month or peak day Needs. This Water Management Strategy serves as documentation of the planning group's acknowledgement of this, and seeks to facilitate the planning, permitting, design, and construction of Balancing (aka Terminal) Storage. Information will be gathered and documented in a Water Management Strategy evaluation.

Facilities Expansion **\$10,000**

Throughout the region, entities are looking for cost-effective ways to better utilize existing water supplies and fully integrate multiple Water Management Strategies. Often this takes the form of water treatment plant expansions, integration pipelines, or other facilitation strategies. The Facilities Expansion Water Management Strategy seeks to document these strategies that do not necessarily create new supply, but make existing supplies or other new Water Management Strategies available for use by the WUG. Region L will collect and document specific facility expansion information, including size or the expansion/construction, amount of water that can be moved/treated, and construction cost information. The information will be summarized in a Water Management Strategy evaluation.

Recycled Water Strategies **\$12,500**

Recycled Water (sometimes called Reuse or Reclaimed Water) is an ever-growing strategy in which a WUG uses its (or another entity's) treated effluent to meet future water Needs. This Water Management Strategy will be inclusive of direct and indirect reuse strategies to be used for both potable and non-potable Needs. The latest regulatory information will be documented, and a list of WUGs recycled strategies will be developed. Specific size, quantity, customers, and cost information for each of the WUGs wishing to implement a recycle strategy will be gathered and assessed. The information will be summarized in a Water Management Strategy evaluation.

Expanded Local Carrizo (SAWS) **\$12,500**

SAWS owns and operates a Carrizo Aquifer well field in Southern Bexar County that produces 9,900 acft/yr. This strategy is the expansion of that Carrizo Aquifer supply by an additional 29,247 acft/yr. The strategy evaluation will include documentation of SAWS latest plans, evaluation of the groundwater

supply available to the project in accordance with the MAG, assessment of the environmental impacts of the project, estimate of cost to develop the water supply, and documentation of the implementation issues. The information will be summarized in a Water Management Strategy evaluation.

Expanded Brackish GW (SAWS)

\$12,500

SAWS owns and operates a brackish Wilcox Aquifer well field in Southern Bexar County that produces 13,400 acft/yr. This strategy is the expansion of that brackish Wilcox Aquifer supply by an additional 20,160 acft/yr. The strategy evaluation will include documentation of SAWS latest plans, evaluation of the groundwater supply available to the project in accordance with the MAG, assessment of the environmental impacts of the project, estimate of cost to develop the water supply, and documentation of the implementation issues. The information will be summarized in a Water Management Strategy evaluation.

Total Task 5A Budget:	\$373,405	100.0%
<u>Total for Block 1:</u>	<u>\$112,500</u>	<u>30.1%</u>
Unallocated Remaining:	\$260,905	69.9%

14. Discussion and Appropriate Action Identifying Potential Water Management Strategies

BUILDING A WORLD OF DIFFERENCE

November 1, 2018

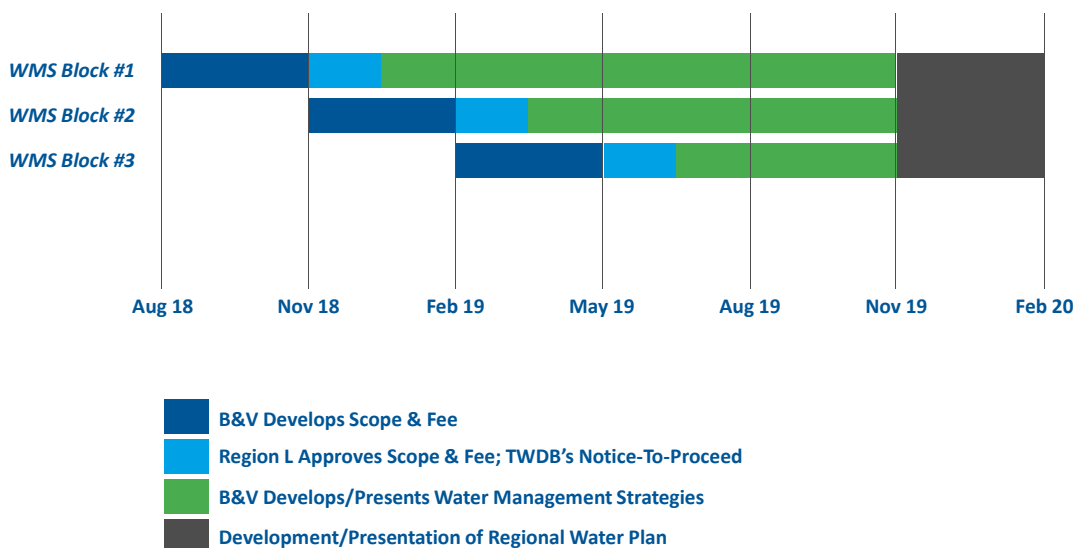
Potential Water Management Strategies – Block #2

November 2018 SCTRWPG Meeting

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Schedule



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Approval to Develop Scope & Fee (Block #2)

- | | |
|--------------------------------|--------------------------------------|
| 1. ARWA/GBRA Project (Phase 1) | 11. SSLGC Expanded CZ Project (Guad) |
| 2. ARWA Project (Phase 2) | 12. SSLGC Brackish WX Project (Gonz) |
| 3. ARWA Project (Phase 3) | 13. NBU ASR |
| 4. GBRA Mid-Basin (Phase 2) | 14. NBU Trinity Well Field Expansion |
| 5. GBRA Lower Basin Storage | 15. NBU-Seguin Project |
| 6. GBRA Lower Basin WR | 16. Victoria ASR |
| 7. Victoria County S-E Project | 17. Victoria GW-SW Exchange |
| 8. CRWA Wells Ranch (Phase 3) | 18. Uvalde ASR |
| 9. CRWA Siesta Project | 19. Brackish Wilcox for SS WSC |
| 10. CVLGC Carrizo Project | |



5. Discussion and Appropriate Action Regarding a 2019 Regional Water Alliance Workshop

6. Location and Date of Next Regional Water Alliance Meeting

7. Future Items for Consideration

8. Adjourn