



c/o San Antonio River Authority
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EXECUTIVE COMMITTEE

Con Mims
Chair / River Authorities
Tim Andruss
Vice-Chair / Water Districts
Gary Middleton
Secretary / Municipalities
Donna Balin
At-Large / Environmental
Kevin Janak
At-Large/ Electric Generating/Utilities

MEMBERS

Gene Camargo
Water Utilities
Rey Chavez
Industries
Alan Cockerell
Agriculture
Will Conley
Counties
Don Dietzmann
GMA 9
Art Dohmann
GMA 15
Blair Fitzsimons
Agriculture
Vic Hilderbran
GMA 7
John Kight
Counties
Russell Labus
Water Districts
Vacant
Industries
Doug McGookey
Small Business
Dan Meyer
GMA 10
Iliana Peña
Environmental
Robert Puente
Municipalities
Steve Ramsey
Water Utilities
David Roberts
Small Business
Roland Ruiz
Water Districts
Diane Savage
GMA 13
Suzanne Scott
River Authorities
Greg Sengelmann
Water Districts
Vacant
Agriculture
Thomas Taggart
Municipalities
Dianne Wassenich
Public
Bill West
River Authorities

DATE: January 29, 2015

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, February 5, 2015,
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.

GMM/cr

Enclosure

**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, February 5, 2015, at 9:30 a.m. 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. Remarks from Texas Water Development Board Director Kathleen Jackson
2. Public Comment
3. Approval of Minutes
4. Election of Officers and Executive Committee for Calendar Year 2015
5. Discussion and Appropriate Action Regarding Nominations to Fill Vacant Agriculture Voting Member (term expires 2016) and Industries Voting Member (term expires 2018)
6. Status of Edwards Aquifer Habitat Conservation Plan (HCP) – Nathan Pence, Executive Director EAHCP
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. Status of the Workgroups' Development of the Chapter 8 Policy Recommendations and Unique Sites Language for Inclusion in the 2016 Initially Prepared Regional Water Plan
 - a) Unique Stream Segment Workgroup
 - b) Policy Workgroup
9. Chair's Report
10. Texas Water Development Board (TWDB) Communications
11. Discussion and Appropriate Action Designating a Workgroup to Hold a Closed Meeting to Develop and Submit a Confidential Report on the Infrastructure Information Utilized for the Development of the 2016 Regional Water Plan to the Texas Water Development Board as Required by 31 TAC §357.42(d)

12. Discussion and Appropriate Action Designating a Political Subdivision for the Fifth Cycle of Regional Water Planning
13. Discussion and Appropriate Action Authorizing Political Subdivision to Apply for Funding for the Fifth Cycle of Regional Water Planning and Post the Associated 30-Day Public Notice Prior to TWDB Board Action on the Application (TWDB action anticipated to take place April 2015)
14. Discussion and Appropriate Action Regarding Consultants Work and Schedule
15. Discussion and Appropriate Action Regarding the Evaluation and Recommendation of Water Management Strategies (Task 4D)
16. Discussion and Appropriate Action Regarding the Recommendations of Potentially Feasible Water Management Strategies for Inclusion into the 2016 Initially Prepared Regional Water Plan
17. Discussion and Appropriate Action Regarding Chapter 6 Cumulative Effects Procedures
18. Appropriate Action Regarding the Adoption of Guadalupe-Blanco River Authority's (GBRA) Proposed Substitution of the Lower Basin Storage 500 Acre Site Project for the Lower Basin Storage 100 Acre Site Project in the 2011 Regional Water Plan and Request the Texas Water Development Board (TWDB) to Amend the 2012 State Water Plan
19. Possible Agenda Items for the Next South Central Texas Regional Water Planning Group Meeting
20. Public Comment

The South Central Texas Regional Water Planning Area consists of Atascosa, Bexar, Caldwell, Calhoun, Comal, Dewitt, Dimmit, Frio, Goliad, Gonzales, Guadalupe, Karnes, Kendall, La Salle, Medina, Refugio, Uvalde, Victoria, Wilson, Zavala and part of Hays Counties.

Please visit www.RegionLTexas.org to review available chapters of the 2016 Initially Prepared Plan

AGENDA ITEM 1

Remarks from Texas Water Development Board Director Kathleen
Jackson

AGENDA ITEM 2

Public Comment

AGENDA ITEM 3

Approval of Minutes

**Minutes of the
South Central Texas Regional Water Planning Group
November 6, 2014**

Chairman Con Mims called the meeting to order at 9:30 a.m. in the San Antonio Water System's (SAWS) Customer Service Building, Room CR 145, 2800 US Highway 281 North, San Antonio, Bexar County, Texas.

28 of the 30 voting members, or their alternates, were present.

Voting Members Present:

Tim Andruss
Donna Balin
Gene Camargo
Alan Cockrell
Will Conley
Don Dietzmann
Art Dohmann
Blair Fitzsimmons
Vic Hilderbran
Kevin Janak
John Kight
Russell Labus
Glen Lord for Gena Leathers
Doug McGooky
Dan Meyer

Gary Middleton
Con Mims
Robert Puente
Iliana Pena
Steve Ramsey
David Roberts
Roland Ruiz
Dianne Savage
Suzanne Scott
Greg Sengemann
Thomas Taggart
Dianne Wassenich
Bill West

Voting Members Absent

Rey Chavez
Milton Stolte

Non-Voting Members Present:

Norman Boyd, Texas Department of Parks and Wildlife
Steve Ramos, TCEQ – South Texas Watermaster Specialists
David Meesey, Texas Water Development Board (TWDB)
David Villarreal for Ken Weidenfeller, Texas Department of Agriculture

Non-Voting Members Absent:

Ronald Fieseler, Region K Liaison
Don McGhee, Region M Liaison
Charles Wiedenfeld, Region J Liaison

Prior to Agenda Item No. 1, Chairman Con Mims pulled Agenda Item No. 15, "Appropriate Action Regarding the Adoption of Guadalupe-Blanco River Authority's (GBRA) Proposed Substitution of the Lower Basin Storage 500 Acre Site Project for the Lower Basin Storage 100 Acre Site Project in the 2011 Regional Water Plan and Request the Texas Water Development Board (TWDB) to Amend the 2012 State Water Plan."

AGENDA ITEM NO. 1: PUBLIC COMMENT

Chairman Mims asked for any public comment. No comments were made.

AGENDA ITEM NO. 2: APPROVAL OF MINUTES

Mr. Mims asked if there were any additions or corrections to the August 7, 2014 meeting minutes. No corrections or revisions were requested. Dianne Wassenich made a motion to approve the minutes as presented. Art Dohmann seconded the motion. The motion carried by consensus.

AGENDA ITEM NO. 3: STATUS OF EDWARDS AQUIFER HABITAT CONSERVATION PLAN (HCP) – NATHAN PENCE, EXECUTIVE DIRECTOR EAHCP

Nathan Pence, Executive Director of the Edwards Aquifer Habitat Conservation Plan (HCP), gave a brief update on the status of the HCP, reminding the Planning Group of the four specific spring flow protection measures implemented by the HCP: 1) the Water Conservation Program, 2) the Aquifer Storage and Recovery (ASR) Program, 3) the Stage Five Critical Period Management by the Edwards Aquifer Authority (EAA), and 4) the Voluntary Irrigation Suspension Program Option (VISPO). Mr. Pence informed the Planning Group that VISPO was triggered in October 2014, as the J-17 index well in San Antonio had a level below mean sea level (635 feet). As a result 40,000 acre-feet of irrigation rights will not be eligible for pumping in 2015, which provides an additional benefit to the Edwards Aquifer and its spring flows.

AGENDA ITEM NO. 4: 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)

Suzanne Scott gave a brief update on the status of the 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). Mrs. Scott informed the Planning Group that the next BBASC meeting will be scheduled in mid-December, where the group will receive an update from the contractors on the status of the individual environmental studies and their development.

AGENDA ITEM NO. 5: CHAIRS REPORT

Chairman Mims had nothing to report.

AGENDA ITEM NO. 6: REVIEW/APPROVE ADMINISTRATOR'S BUDGET FOR CALENDAR YEAR 2015

Cole Ruiz, San Antonio River Authority (SARA), briefly discussed the proposed administrative budget. Gary Middleton motioned to approve the budget. Will Conley seconded the motion. The budget was approved by consensus.

AGENDA ITEM NO. 7: TEXAS WATER DEVELOPMENT BOARD (TWDB) COMMUNICATIONS

David Meeseey, Texas Water Development Board, pointed to some letters provided in the agenda packet as guidance from TWDB on particular questions submitted by Region L Planning Group Members as part of the Reuse Workgroup. He briefly discussed TWDB's responses.

AGENDA ITEM NO. 8: SET DATES AND TIMES OF REGIONAL WATER PLANNING GROUP MEETINGS FOR 2015

Cole Ruiz, San Antonio River Authority, briefly discussed the times and dates of the South Central Texas Regional Water Planning Group's meetings throughout calendar year 2015. The quarterly meetings were set for February 5, 2015, April 2, 2015, August 6, 2015, and Nov 5, 2015. All meetings are scheduled to begin at 9:30 AM.

AGENDA ITEM NO. 9: DISCUSSION AND APPROPRIATE ACTION REGARDING CONSULTANTS WORK AND SCHEDULE

Brian Perkins, HDR Engineering, presented an update on the schedule for plan development highlighting upcoming Planning Group deadlines. May 1, 2015, is the deadline for the submission of the 2016 Initially Prepared Plan (IPP). Between now and February, HDR will begin pulling the plan together for Planning Group consideration. The goal is to nail down all the projects that the Planning Group wants to see in the 2016 Regional Water Plan at the February meeting.

Mr. Perkins also provided an update on the potential issues to the planning process that HDR and the Administrator are tracking. Specifically, Mr. Perkins touched on interregional coordination as it pertains to the San Antonio Water System's (SAWS) Vista Ridge Project, the Hays County Four Star Project, and on meeting the needs of Formosa

AGENDA ITEM NO. 10: DISCUSSION AND APPROPRIATE ACTION REGARDING A RECOMMENDATION FOR LEGISLATIVE DESIGNATION OF STREAM SEGMENTS OF UNIQUE ECOLOGICAL VALUE (TASK 8)

Mr. Mims reminded the Planning Group that the Texas Legislature allows for the designation of stream segments that are of unique ecological value. In 2013, the Planning Group authorized Mr. Mims to seek designation of the Nueces, Frio, Sabinal, Comal, and San Marcos stream segments as ecologically unique. Mr. Mims informed the Planning Group that designation of these stream segments as ecologically unique would only mean that a state agency or political subdivision may not finance the construction of a reservoir within the designated segment. Mr. Mims asked the Planning Group for the authority to seek this type of legislation on behalf of the Planning Group during the upcoming legislative session.

Will Conley made a motion to authorize Chairman Mims to seek legislation on behalf of the Planning Group that would designate the Nueces, Frio, Sabinal, Comal, and San Marcos stream segments as ecologically unique. Kevin Janak seconded the motion. There were no objections. The motion passed by consensus.

Will Conley suggested adding the Cypress and Blanco stream segments to the list of stream segments having ecologically unique value. Discussion ensued regarding the time frame and budgeting process for seeking designation of additional stream segments as ecologically unique. Chairman Mims suggested that the timeframe for designating additional stream segments during the upcoming legislative session does not provide ample time for the consultants to evaluate the segments. Brian Perkins concurred, saying that HDR would likely not be able to complete the necessary evaluation for additional stream segments before the Initially Prepared Plan (IPP) due date of May 1, 2015. However, it may be possible to complete the necessary steps to include a recommendation of additional stream segments to be designated as ecologically unique by the due date of the final 2016 Regional Water Plan in December 2015.

Donna Balin suggested the creation of a workgroup to explore the possibility of adding stream segments of unique ecological value, which are not currently in the Regional Water Plan, as part of the Chapter 8

Policy Recommendations and Unique Sites.

Sam Vaugh, HDR Engineering, clarified that the Planning Group probably has sufficient budget to evaluate one or two additional segments. However, the recommendation from the Planning Group must go through Texas Parks and Wildlife for review. Texas Parks and Wildlife has a 30 day review period. Therefore, if the Planning Group wants to add stream segments to its Chapter 8 Policy Recommendations for the 2016 Regional Water Plan to be designated as ecologically unique, the Planning Group should move quickly on identifying those stream segments. Mr. Vaugh further clarified that a stream segment needs to be recommended in a Regional Water Plan, and incorporated into an approved State Water Plan before a request may be made to the Legislature to designate a stream as ecologically unique.

Addressing Mrs. Balin's suggestions, Chairman Mims appointed the following members, or their designees, to the Unique Stream Segments Workgroup: Will Conley, Iliana Pena, Doug McGookey, Donna Balin, Suzanne Scott, Bill West, and Robert Puente. Chairman Mims asked Mr. Conley to serve as Chair, and for the technical consultants to guide and support the workgroup's efforts. The Workgroup will report on their recommendations at the February Regional Water Planning Group meeting for the full Planning Group to consider.

Chairman Mims also addressed the creation of a Policy Workgroup to review and suggest changes to the 2011 Regional Water Plan policy recommendations to be incorporated in Chapter 8, the Policy Recommendations and Unique Sites section of the the 2016 Regional Water Plan. Chairman Mims appointed the following members, or their designees, to the Workgroup: Donna Balin, Kevin Janak, Blair Fitzsimons, Gena Leathers, Robert Puente, Bill West, Suzanne Scott, David Roberts, Roland Ruiz, Tom Taggart, Steve Ramsey, Dianne Wassenich, and Russell Labus. Chairman Mims asked Mrs. Wassenich to serve as Chair, and for the technical consultants to guide and support this workgroup's efforts.

AGENDA ITEM NO. 11: DISCUSSION AND APPROPRIATE ACTION REGARDING EVALUATION AND RECOMMENDATION OF WATER MANAGEMENT STRATEGIES FOR INCLUSION IN THE 2016 INITIALLY PREPARED PLAN (IPP)

Mr. Perkins presented technical evaluations for two of eleven potentially feasible water management strategies to the Planning Group, noting that technical evaluations for four additional water management strategies would be presented at the meeting in February 2015. Mr. Perkins presented technical evaluations for the Hays County Forestar Project and the Drought Management water management strategies.

Chairman Mims recessed the meeting for lunch. Upon reconvening the meeting, Chairman Mims suggested briefly skipping ahead to agenda items numbered thirteen through sixteen to ensure the Planning Group maintained a quorum for potential actions related to those agenda items. (See below beginning with Agenda Item No. 13 and ending with Agenda Item 16).

Following discussion and action on agenda items numbered thirteen through sixteen, Chairman Mims directed the Planning Group back to discussion of Agenda Item No. 11. Mr. Perkins continued presenting the technical evaluations for the remaining water management strategies, which included the following: Local Carrizo Aquifer Permitted Use Conversions, Lavaca Off-Channel Reservoir, Texas Water Alliance (TWA) Trinity Well Field Project, San Antonio Water System (SAWS) Vista Ridge Project, Seawater Desalination for SAWS, Guadalupe-Blanco River Authority (GBRA) Integrated Water Power Project (IWPP), and the Victoria County Steam-Electric (with and without effluent return flows).

Sam Vaugh presented technical evaluations for the remaining water management strategies, which included the Hays County Public Utility (HCPUA) + TWA + Mid Basin Water Supply Project (MBWSP) Joint Project and the Luling ASR (Aquifer Storage and Recovery) Project.

AGENDA ITEM NO. 12: DISCUSSION AND APPROPRIATE ACTION REGARDING DEVELOPMENT OF 2016 INITIALLY PREPARED PLAN (IPP)

Mr. Vaughn discussed the various chapters include in the 2016 Regional Water Plan, and HDR's schedule for getting those out to the Planning Group for review. Mr. Vaughn indicated that HDR will deliver Chapters One through Four to Planning Group before December 1, 2014. They will be delivered to SARA, who will distribute the materials electronically and post on the Region L website. Chapter Five, which contains all of the identified potentially feasible water management strategies, will be delivered in sections, the first being by January 5, 2015, and the second being by January 19, 2015. Chapter Six, which contains the cumulative effects analysis, will be delivered after the February 5, 2015. Chapter Seven – which included drought response information, activities, and recommendations – will be delivered by January 5, 2015. Chapter Eight contains the Planning Group's policy recommendations, and the draft will be delivered by January 19, 2015. Chapter Nine on infrastructure financing will not be delivered until after the submission of the Initially Prepared Plan (IPP). Chapters Ten is a comparison of the 2016 proposed Regional Water Plan and the 2011 Regional Water Plan. Chapter Eleven is on public participation and plan adoption. Both Chapters Ten and Eleven will be delivered sometime after the adoption of the IPP.

Brian Perkins presented county by county summaries to the Planning Group showing the water supply needs of water user groups throughout Region Land potentially feasible Water Management Strategies proposed to meet those needs.

Mr. Perkins also presented seven of eight wholesale water provider tables, depicting water demands, supplies, needs, and potentially feasible water management strategies (both the envisioned projects and modeled available ground water [MAG] limited). The tables presented included information regarding SAWS, Canyon Regional Water Authority (CRWA), HCPUA, TWA, Schertz-Sequin Local Government Corporation (SSLGC), Cibolo Valley Local Government Corporation (CVLGC), and Springs Hill Water Supply Corporation (SHWSC). Sam Vaughn presented the Wholesale Water Provider table containing the same information for GBRA.

(At this time, the meeting continued with Agenda Item 17)

AGENDA ITEM NO. 13: THE REGULAR MEETING OF NOVEMBER 6, 2014, OF THE SOUTH CENTRAL TEXAS REGIONAL WATER PLANNING GROUP WILL RECESS TO HOLD TWO PUBLIC MEETINGS TO CONSIDER THE FOLLOWING:

A. THE GUADALUPE-BLANCO RIVER AUTHORITY'S (GBRA) PROPOSED SUBSTITUTION OF THE LOWER BASIN STORAGE 500 ACRE SITE PROJECT FOR THE LOWER BASIN STORAGE 100 ACRE SITE PROJECT IN THE 2011 REGIONAL WATER PLAN

Chairman Mims called the public meeting to order.

Sam Vaughn gave a brief presentation on the projects' technical evaluation. There were no comments from the public regarding the proposed substitution.

Chairman Mims adjourned the public meeting.

B. THE GUADALUPE-BLANCO RIVER AUTHORITY'S (GBRA) PROPOSED MINOR AMENDMENT OF THE INTEGRATED WATER POWER PROJECT TO THE 2011 REGIONAL WATER PLAN

Chairman Mims called the public meeting to order.

Bill West, GBRA, made some brief comments regarding the GBRA proposed minor amendment to add the Integrated Water Power Project to the 2011 Regional Water Plan. Mr. West emphasized the importance of desalination in Texas.

Brian Perkins gave a brief presentation on the projects' technical evaluation, and asked for any public comment.

Tyson Broad, a member of the public representing the Lone Star Chapter of the Sierra Club, inquired about how the project would be ranked in terms of the prioritization of projects in the 2011 Regional Water Plan. Mr. Perkins responded, saying that, as part of the amendment package, the project would be scored, and then fall in line wherever it ranks compared to previously scored projects in the 2011 Regional Water Plan.

There were no other comments from the public.

Chairman Mims adjourned the public meeting.

AGENDA ITEM NO. 14: RECONVENE THE REGULAR MEETING OF NOVEMBER 6, 2014, OF THE SOUTH CENTRAL TEXAS REGIONAL WATER PLANNING GROUP.

Chairman Mims reconvened the regular South Central Texas Regional Water Planning Group meeting.

AGENDA ITEM NO. 15: APPROPRIATE ACTION REGARDING THE ADOPTION OF GUADALUPE-BLANCO RIVER AUTHORITY'S (GBRA) PROPOSED SUBSTITUTION OF THE LOWER BASIN STORAGE 500 ACRE SITE PROJECT FOR THE LOWER BASIN STORAGE 100 ACRE SITE PROJECT IN THE 2011 REGIONAL WATER PLAN AND REQUEST THE TEXAS WATER DEVELOPMENT BOARD (TWDB) TO AMEND THE 2012 STATE WATER PLAN

Agenda Item No. 15 was removed from the agenda prior to this meeting.

AGENDA ITEM NO. 16: APPROPRIATE ACTION REGARDING ADOPTION OF GUADALUPE-BLANCO RIVER AUTHORITY'S (GBRA) PROPOSED MINOR AMENDMENT OF THE INTEGRATED WATER POWER PROJECT TO THE 2011 REGIONAL WATER PLAN AND REQUEST THE TEXAS WATER DEVELOPMENT BOARD (TWDB) TO AMEND THE 2012 STATE WATER PLAN

Chairman Mims asked for discussion regarding the adoption of the GBRA proposed minor amendment to add the Integrated Water Power Project to the 2011 Regional Water Plan and the proposed action to request the Texas Water Development Board (TWDB) to amend the 2012 State Plan accordingly. Donna Balin asked about the location of the associated power facility. Mr. West explained that the exact location would depend on a myriad of factors. Though it seems logical that the desalination facility and the power facility are co-located, GBRA is currently looking at twenty-one potential sites. A final decision has not yet been made.

Iliana Pena asked Mr. West if there were any environmental considerations involved in the process of choosing a sites for the facilities. Mr. West, responded, saying GBRA is utilizing a scoring matrix to evaluate the potential sites. The first survey question of the scoring matrix addresses the fragile environmental state, agreeing that much of the environment is sensitive in the region.

Dianne Wassenich asked whether the project targets a specific end water user group, noting that there is not

a defined need where the delivery facilities will be located. Brian Perkins suggested that this specific project does not deliver directly to a water user group, but rather to a wholesale water provider, who will in turn deliver to customers. This resulting supply will be shown in Wholesale Water Provider Tables section of the 2011 Regional Water Plan, rather than the Water User Group Needs Analysis Tables section of the plan.

John Kight made a motion to adopt the minor amendment to the 2011 Regional Water Plan and request TWDB to amend the 2012 State Water Plan. The motion was seconded. Chairman Mims asked if there was further discussion or any objections. There were none. The motion passed by consensus.

AGENDA ITEM NO. 17: POSSIBLE AGENDA ITEMS FOR THE NEXT SOUTH CENTRAL TEXAS REGIONAL WATER PLANNING

Chairman Mims instructed the Planning Group to notify either him or Cole Ruiz, San Antonio River Authority, of any agenda items they would like to have addressed at the next Planning Group meeting.

AGENDA ITEM NO. 18: PUBLIC COMMENT

Chairman Mims asked any public comment. There was none.

AGENDA ITEM NO. 19: ADJOURN

Chairman Mims adjourned the meeting.

Recommended for approval.

GARY MIDDLETON, SECRETARY

Approved by the South Central Texas Regional Water Planning Group at a meeting held on February 5, 2015.

CON MIMS, CHAIR

AGENDA ITEM 4

Election of Officers and Executive Committee for Calendar
Year 2015

designated alternate for a voting member who serves as an officer shall not be allowed to serve in the capacity as an officer in the member's absence.

Because it is important in achieving consensus for all members to participate actively, keep up-to-date on the progress of the group, and develop a common base of information, members shall in good faith attempt to minimize the number of time they are absent from meetings or are represented by their designated alternates.

The Administrative Officer shall maintain a current list of all members and their designated alternates.

ARTICLE VIII OFFICERS

Section 1 Officers; Restrictions and Terms of Office

Voting members of the South Central Texas RWPG shall elect from the voting membership a Chair, Vice-Chair and Secretary to serve as officers. Each officer shall serve a term of one calendar year. Except as provided under Section 4 of this Article, an officer shall serve a term of one calendar year. Except as provided under Section 4 of this Article, an officer shall serve until his/her successor takes office. No two voting members representing the same interest shall serve as officers at the same time. Elections shall be held annually, with no restrictions on the number of consecutive terms an individual may serve as an officer other than those that apply because of his/her status as a voting member under these Bylaws.

Section 2 Selection

Officers shall be elected at the first meeting of each calendar year. Nominations shall be made from the floor by voting members. The voting members shall elect officers from among the nominees by consensus or by affirmative vote of a majority of the voting membership.

Section 3 Removal of Officers

Any officer may be removed from office for any of the grounds for removal of voting members set forth under Article V of these Bylaws, or for repeated failure to carry out the duties of the office, by a consensus or by majority vote of the voting membership. Removal of an officer shall be set as an agenda item at the next scheduled meeting upon written request signed by five voting members to the Chair or Secretary. The Chair or Secretary receiving the request shall notify the officer in writing that he/she shall be subject to a removal action at the next scheduled meeting. At that meeting, the officer subject to the possible removal action may present evidence of why he/she should not be removed. If the Chair is the subject of the possible removal action, The Vice-Chair shall preside over the meeting during the agenda item concerning the Chair's removal. The officer subject to the removal action shall not participate in any way in the removal decision, nor shall his/her membership count as part of the total membership for purposes of calculating the vote. The notice of the meeting shall be posted in accordance with the Open Meetings Act and shall state that the issue of possibly removing the officer will be on the agenda. Any vacancy caused by the removal shall be filled as provided under Section 4 of this Article.

Section 4 Vacancies of Officers

Whenever an officer vacancy exists, the vacancy shall be filled at the next properly noticed South Central Texas RWPG meeting. Nominations shall be made from the floor by voting members. The voting members shall elect a replacement officer from among the nominees by consensus or by affirmative vote of a majority of the voting membership. The next highest-ranking officer shall serve in the vacant position until a successor takes office, unless the office of the Secretary becomes vacant, in which case the Chair shall appoint a willing voting member to serve as Secretary until the successor to the Secretary takes office. The person selected to fill a vacancy for an officer shall serve for the unexpired term of his/her predecessor in office.

Section 5 Duties of Each Officer

- (a) Chair: The Chair shall be the executive officer of the South Central Texas RWPG. The Chair will preside at all meetings of the South Central Texas RWPG and perform all duties provided by these Bylaws. The Chair may establish and appoint such committees as may be necessary or desirable to assist in conducting the business of the South Central Texas RWPG, or as may be directed by the South Central Texas RWPG. If the Chair is unable to carry out his/her duties, the Vice-Chair shall assume the duties of the Chair.
- (b) Vice-Chair: The Vice-Chair shall assist the Chair in the discharge of his/her duties and, in the absence of the Chair, shall assume the Chair's full responsibilities and duties. In the event the Chair is unable to carry out his/her duties, the Vice-Chair shall serve as Chair until the South Central Texas RWPG elects a new Chair under Section 4 of this Article. The Vice-Chair shall perform other duties as assigned by the Chair or these Bylaws.
- (c) Secretary: The Secretary or the Administrative Officer shall maintain the minutes and take attendance of the South Central Texas RWPG meetings. The minutes and attendance shall be kept as part of the South Central Texas RWPG official records. The Secretary, or the Administrative Officer, shall ensure that all notices are properly posted as provided in the Bylaws, as required by law and as required by the Texas Open Meetings Act. The Secretary shall perform other duties as assigned by the Chair or these Bylaws. If both the Chair and Vice-Chair are unable to carry out the duties of the Chair, the Secretary shall assume the duties of the Chair.

Section 6 Executive Committee

The Executive Committee shall be composed of five South Central Texas RWPG members, including the Chair, Vice-Chair, Secretary and two members-at-large. No two voting members representing the same interest shall serve as members of the Executive Committee at the same time. The two members-at-large shall be elected annually in the same manner and with the same terms as set forth for the election of officers under this Article. Members-at-large shall be removed and their vacancies filled in the manner prescribed for officers under this Article.

The Executive Committee shall be responsible for carrying out the duties imposed on it in these Bylaws. The voting members of the South Central Texas RWPG may delegate any administrative decisions to the Executive Committee unless provided otherwise in these Bylaws.

All meetings of the Executive Committee shall comply with the provisions related to meetings generally as set forth in Article IX of these Bylaws.

ARTICLE IX MEETINGS

Section 1 Open Meetings and Notice

SCTRWPG MEMBERS' TERMS OF OFFICE

February 5, 2015

Member Name	Position	Interest Represented	Term Expires
Executive Committee			
Con Mims	Chair	River Authorities	2016
Tim Andruss	Vice Chair	Water Districts	2018
Gary Middleton	Secretary	Municipalities	2016
Kevin Janak	At-Large	Electric Generation Utilities	2016
Donna Balin	At-Large	Environmental	2016
Dianne Wassenich		Public	2018
Iliana Pena		Environmental	2016
Will Conley		Counties	2018
John Kight		Counties	2016
Robert Puente		Municipalities	2016
Tom Taggart		Municipalities	2016
VACANT		Industries	2018
Rey Chavez		Industries	2016
VACANT		Agricultural	2016
Alan Cockerell		Agricultural	2016
Blair Fitzsimons		Agricultural	2018
Doug McGookey		Small Business	2018
David Roberts		Small Business	2018
Bill West		River Authorities	2016
Suzanne Scott		River Authorities	2018
Roland Ruiz		Water Districts	2018
Greg Sengelmann		Water Districts	2018
Russell Labus		Water Districts	2016
Steve Ramsey		Water Utilities	2018
Gene Camargo		Water Utilities	2018
Vic Hilderbran		GMA 7	Indefinite
Don Dietzmann		GMA 9	Indefinite
Daniel Meyer		GMA 10	Indefinite
Diane Savage		GMA 13	Indefinite
Art Dohmann		GMA 15	Indefinite

AGENDA ITEM 5

Discussion and Appropriate Action Regarding Nominations to Fill
Vacant Agriculture Voting Member (term expires 2016) and Industries
Voting Member (term expires 2018)

February 4, 2015:

Post public notice in a newspaper of general circulation in each county located in whole or in part in the South Central Texas RWPA soliciting nominations for a successor in accordance with Article V Section 4 of the SCTRWPG Bylaws



March 6, 2015

Thirty day nomination period expires .



March 6, 2015 - March 27, 2015

Executive Committee will receive and process the nominations, conduct interviews with nominees, and recommend a nominee for each vacant position to the full SCTRWPG.



April 2, 2015

Executive Committee gives recommendations of nominees to the full SCTRWPG. The full SCTRWPG appoints new members to fill vacancies. The full SCTRWPG is not bound by the Executive Committee's recommendations.



c/o San Antonio River Authority
P.O. Box 839980
San Antonio, Texas 78283-9980

(210) 227-1373 Office
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EXECUTIVE COMMITTEE

Con Mims
Chair / River Authorities
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Secretary / Municipalities
Donna Balin
At-Large / Environmental
Kevin Janak
At-Large/ Electric Generating/Utilities

MEMBERS

Gene Camargo
Water Utilities
Rey Chavez
Industries
Alan Cockerell
Agriculture
Will Conley
Counties
Don Dietzmann
GMA 9
Art Dohmann
GMA 15
Blair Fitzsimons
Agriculture
Vic Hilderbran
GMA 7
John Kight
Counties
Russell Labus
Water Districts
Vacant
Industries
Doug McGookey
Small Business
Dan Meyer
GMA 10
Iliana Peña
Environmental
Robert Puente
Municipalities
Steve Ramsey
Water Utilities
David Roberts
Small Business
Roland Ruiz
Water Districts
Diane Savage
GMA 13
Suzanne Scott
River Authorities
Greg Sengelmann
Water Districts
Vacant
Agriculture
Thomas Taggart
Municipalities
Dianne Wassenich
Public
Bill West
River Authorities

February 4, 2015

NOTICE TO PUBLIC

The South Central Texas Regional Water Planning Group (Region L), as established by the Texas Water Development Board in accordance with 31 TAC 357, is soliciting nominations to fill **two** vacancies as voting members on the South Central Texas Regional Water Planning Group in the following interest areas: Industries; and Agriculture. The Industries vacancy will be filled to complete a term expiring in 2018. The Agriculture vacancy will be filled to complete a term expiring in 2016. Persons interested in either the Industries or Agriculture interest areas must be nominated by the governing board or chief executive officer of a qualifying entity within the respective interest area.

A nomination form must be completed and submitted for each nominee to be considered. For specific definitions and eligibility requirements in each of the areas of interest and to obtain a nomination form, please contact Cole Ruiz, (210) 302-3293 or cruiz@sara-tx.org. Nomination forms are also available at www.RegionLTexas.org.

The South Central Texas Regional Water Planning Area consists of Atascosa, Bexar, Caldwell, Calhoun, Comal, DeWitt, Dimmit, Frio, Goliad, Gonzales, Guadalupe, Karnes, Kendall, La Salle, Medina, Refugio, Uvalde, Victoria, Wilson, Zavala and part of Hays Counties.

Nominations must be received by 5:00 pm, Friday, March 6, 2015 addressed to Con Mims, Chair, South Central Texas Regional Water Planning Group, c/o San Antonio River Authority, Attn: Cole Ruiz, P.O. Box 839980, San Antonio, Texas 78283-9980, faxed to (210) 302-3692 or emailed to cruiz@sara-tx.org.

SOUTH CENTRAL TEXAS REGIONAL WATER PLANNING GROUP

Nomination for Interest Group (check one):

- ☐ Agriculture, ☐ Counties, ☐ Electric Generating Utilities,
☐ Environmental, ☐ Industries, ☐ Municipalities, ☐ River Authority, ☐ Water Districts

NOMINATOR

NAME: _____

ADDRESS: _____

PHONE: _____ FAX: _____ EMAIL: _____

OCCUPATION _____

NOMINEE

NAME: _____

ADDRESS: _____

PHONE: _____ FAX: _____ EMAIL: _____

INTEREST AREA: _____

COUNTY: _____

OCCUPATION: _____

PLEASE GIVE A BRIEF DESCRIPTION OF THE NOMINEE'S EXPERIENCE THAT WOULD QUALIFY HIM/HER FOR THE POSITION:

PLEASE LIST ANY PERTINENT AFFILIATIONS:

DATE SUBMITTED: _____

PLEASE ATTACH ADDITIONAL INFORMATION IF DESIRED

Nominations must be received by **5:00 p.m., Friday, March 28, 2014** addressed to Con Mims, Chair, South Central Texas RWPG, c/o San Antonio River Authority, Attn: Erin Newberry, P.O. 839980, San Antonio, Texas 78283-9980: Faxed to (210) 302-3692 or email to enewberry@sara-tx.org

ARTICLE V VOTING MEMBERSHIP

Section 1 Composition

The initial voting members of the South Central Texas RWPG include the initial coordinating body appointed by the TWDB on February 19, 1998, plus the additional voting members appointed by the initial coordinating body to ensure adequate representation of the interests comprising the South Central Texas RWPA stated in Texas Water Code §16.053(c), if present and other interests determined by the South Central Texas RWPG, to include representatives appointed by Groundwater Management Areas in accordance with Section §16.053(c). Thereafter, the voting membership of the South Central Texas TWPG shall include persons added and exclude those removed as provided under this Article and any 31 TAC § 357.4(g)(4) member selected for voting membership under Article VI.

Section 2 Terms of Office

Except for members
Management Areas under Texas Water Code
office for voting members shall be five years

appointed by Groundwater
Section §16.053(c). Terms of

Section 3 Conditions of Membership

In order to be eligible for voting membership on the South Central Texas RWPG, a candidate must represent the interest for which a member is sought, be willing to participate in the regional water planning process, and abide by these Bylaws.

Section 4 Selection of Members

At least forty-five calendar days prior to the expiration of the term of a voting member, or within two weeks following a Planning Group meeting at which the Planning Group decides to replace a voting member, the South Central Texas RWPG will post public notice in a newspaper of general circulation in each county located in whole or in part in the South Central Texas RWPA soliciting nominations for a successor, identifying the particular interest for which nominations are sought, stating the conditions of membership, delineating the method for submitting nominations, and establishing a deadline for submission of nominations between thirty and forty-five calendar days from the date that public notice was posted. Members of the South Central Texas RWPG may also submit nominations in the manner prescribed in the public notice.

The Executive Committee will receive and process the nominations and after the deadline for submitting nominations, will recommend a nominee for the position to the voting membership as a whole, giving strong consideration to a consensus nominee from those individuals and entities that collectively represent that interest. The Executive Committee shall consider and report all nominations received but may consider only persons who meet the conditions of membership. The voting membership as a whole is not bound by the recommendation of the Executive Committee and may consider any nominee who meets the conditions of membership.

The voting members shall attempt to make a decision for a successor by consensus. If efforts to reach consensus fail, the Chair shall call for a vote on a nominee. An affirmative vote of a majority of the voting membership shall be required to elect a nominee as a new voting member. If voting fails to select a new voting member, the voting members shall consider other nominations until a

new member can be selected by consensus or affirmative majority vote of the voting membership.

In addition to selecting new voting members to fill vacancies caused by removal, resignation or the expiration of a term, the voting members may add members to ensure adequate representation of the interests comprising the South Central Texas RWPA by using the selection process set forth in this section. In both the consideration of nominees and the selection of new voting members, the Executive Committee and other voting members shall strive to achieve geographic, ethnic and gender diversity.

Outgoing voting members shall be given the opportunity to fully participate in the selection process for their successors and shall serve until successors take office. However, no member shall participate in a vote in which he/she is a nominee.

A membership created by a Groundwater Management Area in accordance with Texas Water Code §16.053(c) shall be maintained by that Groundwater Management Area. The Planning Group shall notify a Groundwater Management Area of a vacancy created by its appointed member.

Section 5 Attendance

All members shall make a good faith effort to attend all South Central Texas RWPG meetings and hearings. Records of attendance shall be kept by the Secretary at all South Central Texas RWPG meetings and hearings and presented as part of the minutes. Voting members of the South Central Texas RWPG who have missed three consecutive regular meetings, or at least one-half of all meetings in the preceding twelve months, shall be considered to have engaged in excessive absenteeism and are subject to removal from membership under Section 7 of this Article. The Planning Group shall notify any Groundwater Management Area of excessive absenteeism, as defined in this section, of a member appointed by that Groundwater Management Area under Texas Water Code §16.053(c) and request its consideration of replacing that member. Members are encouraged to notify the Chair if they will miss a meeting and/or send a designated alternate.

Section 6 Code of Conduct

Members and designated alternates of the South Central Texas RWPG shall ethically conduct the business of the South Central Texas RWPG and shall avoid any form or appearance of a conflict of interest, real or apparent, by observing the following:

- (a) No member or designated alternate of the South Central Texas RWPG shall knowingly:
 - (1) Solicit or accept gratuities, favors or anything of monetary value from suppliers or potential suppliers of services, materials or equipment, including subcontractors under recipient contracts or any other person who has a substantial financial interest in the regional water plan; or
 - (2) Participate in the selection, award or administration of a procurement where the member or designated alternate has a financial or other substantive interest in the organization being considered for award. Such conflict may be due to any of the following having a financial or familial relationship with the organization:
 - i) the member or designated alternate;

AGENDA ITEM 6

Status of Edwards Aquifer Habitat Conservation Plan (HCP) – Nathan Pence, Executive Director EAHCP

AGENDA ITEM 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)

AGENDA ITEM 8

Status of the Workgroups' Development of the Chapter 8 Policy Recommendations and Unique Sites Language for Inclusion in the 2016 Initially Prepared Regional Water Plan

- a) Unique Stream Segment Workgroup
- b) Policy Workgroup

AGENDA ITEM 9

Chair's Report

AGENDA ITEM 10

Texas Water Development Board (TWDB) Communications

AGENDA ITEM 11

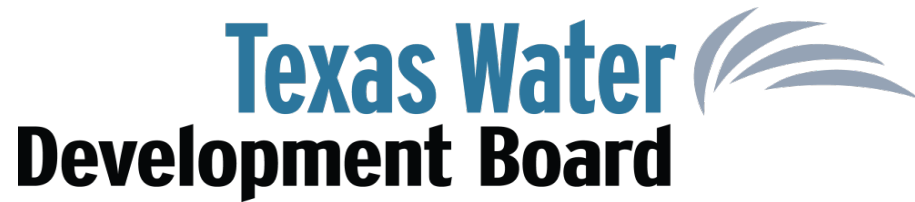
Discussion and Appropriate Action Designating a Workgroup to Hold a Closed Meeting to Develop and Submit a Confidential Report on the Infrastructure Information Utilized for the Development of the 2016 Regional Water Plan to the Texas Water Development Board as Required by 31 TAC §357.42(d)

AGENDA ITEM 12

Discussion and Appropriate Action Designating a Political Subdivision
for the Fifth Cycle of Regional Water Planning

AGENDA ITEM 13

Discussion and Appropriate Action Authorizing Political Subdivision to Apply for Funding for the Fifth Cycle of Regional Water Planning and Post the Associated 30-Day Public Notice Prior to TWDB Board Action on the Application (TWDB action anticipated to take place April 2015)



**Guidance for Preparation of the 2015 Application for
Regional Water Planning Grant**

Fifth Cycle of Regional Water Planning

December 2014

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Contract between the TWDB and the Regional Water Planning Group Political Subdivisions.....	7

Timeline for Regional Water Planning Contracting

- **December 12, 2014:** TWDB to post Request for Applications (RFA) in the *Texas Register*.

[RWPGs to meet prior to March 2015 to authorize the Political Subdivision to submit the application by March 3, 2015 and to post a large public notice at least 30 days prior to the anticipated April 9, 2015 TWDB Board meeting – reference page 4 of this guidance]

-2015-

- **March 3, 2015:** Responses to RFA due to TWDB by 12 p.m. (**noon**).
- **April 9, 2015:** Anticipated Board authorization to negotiate and execute regional water planning contracts. RWPGs should not reference the April 9th date in the public notice.
- **August 31, 2015:** Deadline for executing fifth cycle regional water planning contracts.

Potential legislative appropriation for FY 2016-2017 may become available for regional water planning activities (this anticipated future funding is not included in this current application).

(Tentative Schedule Below)

-2020-

- **May 1, 2020:** Submission deadline for the Fifth Cycle Initially Prepared Regional Water Plans (IPPs) to TWDB.
- **November 2, 2020:** Submission deadline for the Fifth Cycle Adopted Regional Water Plans to TWDB.

-2021-

- **January 5, 2021:** Statutory deadline for the Fifth Cycle Final Adopted Regional Water Plans to TWDB.

Required Public Notice¹ Associated with Submitting an Application to TWDB for Regional Water Planning Funds

There is one significant notice associated with filing an application for funding; see 31 TAC §355.91.

The notice of intent to apply for Regional Water Planning funds should be posted by the Regional Water Planning Group's Political Subdivision **at least 30 days prior to TWDB Board consideration of funding applications** (anticipated TWDB Board meeting date of April 9, 2015). RWPGs should **not** reference any Board consideration date in the public notice.

Prior to TWDB Board action, in accordance with 31 TAC 357.21(d)(4), the applicant must provide TWDB a copy of the notice, a list of who the notice was sent to, the date the notice was sent, copies of all notices as published showing the name of the newspaper and date on which the notice was published.

Note that regional water planning groups will also be required to eventually hold a pre-planning public meeting to receive public input on issues that should be addressed or provisions that should be included in the regional or state water plan (31 TAC 357.12(a)(1) and 357.21(d)(1)). This meeting will also require a significant notice 30 days prior to the RWPG meeting to receive public input and must take place prior to the political subdivision spending any funding on planning activities. This pre-planning meeting is not required to apply for funds.

Introduction to the Application

Background on the Funding Process for the Fifth Cycle of Regional Water Planning:

The fifth cycle of regional water planning will commence using the approximately \$1.6 million in funding that is currently available with additional future legislative appropriations, if available, to be provided to RWPGs via a future TWDB Request for Applications. These initial funds are considered sufficient to support regional water planning activities to the point at which regions are able to evaluate population and water demand projections.

In conjunction with another TWDB Request for Applications (based on future appropriations) TWDB will amend the contracts to include additional scope of work and additional funds, subject to availability.

Relevant Documents for the Application:

- a) Request for Applications (*Texas Register* notice)
- b) Guidance for Preparation of the 2015 Application for Regional Water Planning Grant (this document)
- c) TWDB Research and Planning Fund Senate Bill One Regional Water Planning Grant Application Instructions (includes application checklist)
- d) Initial Scope of Work for the Fifth Cycle of Regional Water Planning (prepared by TWDB)
- e) General Guidelines for Fifth Cycle of Regional Water Plan Development
- f) General Guidelines for Regional Water Planning Data Deliverables (2017-2021)
- g) Generic Templates for RWPG Meeting Agenda Items and Public Notice of Intent to Submit a Regional Water Planning Grant Application
- h) Texas Water Code §16.051 and §16.053 – State and Regional Water Planning Statute
- i) 31 TAC Chapters 355, 357, 358 – State and Regional Water Planning Rules
- j) 2012 Regional Water Planning Public Notification Quick-Reference

Relevant documents for the application may be downloaded at:

<http://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2021/index.asp>

¹ A generic example of this notice may be found at:

<http://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2021/index.asp>

Scope of Work

The standard scope of work to be included in the application was prepared by TWDB² and is being provided to all RWPGs by TWDB as the *Initial Scope of Work for the Fifth Cycle of Regional Water Planning* and may be downloaded at:

<http://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2021/index.asp>

Currently Available Funding

Available funding to commence planning activities for all planning groups is in an amount not to exceed \$1,649,885 (Table 1).

If additional funding for this cycle of regional water planning is made available by the 84th Texas Legislature, RWPGs will be required to apply for these additional funds under a Request for Application process approved by the Board at a future date. Future funding, if appropriated, would be allocated to complete Task 10, and to perform Tasks 1, 3-9, and 11-12 (see Table 1). A scope of work for the remainder of the planning tasks will be prepared by TWDB (with the exception of Task 4D) and included as part of any further requests for additional regional water planning funds, subject to availability.

Funding Allocations

The proposed funding allocations shown in Table 1 are estimates of the funds planning groups will need to prepare the projections portions of the 2021 Regional Water Plans in accordance with statute and rule requirements including: providing public notice; holding meetings; preparing associated plan documents; and populating the online planning database. These funds are fully allocated to the Tasks as shown in Table 1 and as described in the *Initial Scope of Work for the Fifth Cycle of Regional Water Planning*. The amounts in Table 1 should be used in the RWPG Task Budgets to be submitted as part of the Applications.

The expense budget to be included in the Application should follow the format shown in the *TWDB Research and Planning Fund Senate Bill One Regional Water Planning Instruction Sheet*. These funding amounts are not guaranteed funds and must be requested in grant applications submitted to TWDB by the deadline.

Because each regional plan will require varying levels of effort amongst tasks, TWDB recognizes the need for flexibility. Once the scope of work and associated budget have been approved by the Board, and signed into contract, the regional water planning groups (and their consultants) will have the option of reallocating funds between tasks up to 35 percent of the lesser task's budget, as described in the contract. The reallocation of funds beyond this limit will require approval by the RWPG and written approval by TWDB in accordance with the contract.

+

² There is no 'scope development' budget. Regions are to submit the scope of work provided by TWDB as part of the Request for Application documents.

Table 1: Summary of Funding Allocated to RWPGs to Initiate the Fifth Cycle of Regional Water Planning

		PLANNING TASK					
		1	2A	2B	3-9	10*	11-12
		Planning Area Description	Non-Population Related Water Demand Projections	Population & Population-Related Water Demand Projections	Evaluation of Existing Water Supply; Identification of Water Needs; Identification of Potentially Feasible Water Management Strategies; Evaluation and Selection of Water Management Strategies; Conservation Recommendations; Impacts of WMSs on Water Quality & Moving Water from Ag and Rural Areas; Consistency with Long-term Protection of Natural Resources; Drought Response, Activities & Recommendations; Unique Reservoir/Stream Segments & Legislative Recommendations; Water Infrastructure Funding	Adoption of Plan (administration & public participation)	Implementation and Comparison to the Previous Regional Water Plan; Prioritization of projects in the 2021 Regional Water Plan
Region	Total Initial Funding	Amount	Amount	Amount	Amount	Amount	Amount
A	\$77,520	TBD	\$20,104	\$15,043	TBD	\$42,373	TBD
B	\$56,880	TBD	\$13,707	\$10,112	TBD	\$33,061	TBD
C	\$188,667	TBD	\$24,198	\$89,070	TBD	\$75,399	TBD
D	\$127,597	TBD	\$26,425	\$37,364	TBD	\$63,808	TBD
E	\$45,446	TBD	\$8,064	\$10,815	TBD	\$26,567	TBD
F	\$107,108	TBD	\$29,819	\$21,533	TBD	\$55,756	TBD
G	\$187,800	TBD	\$40,286	\$59,531	TBD	\$87,983	TBD
H	\$177,909	TBD	\$28,385	\$73,371	TBD	\$76,153	TBD
I	\$117,891	TBD	\$26,840	\$31,390	TBD	\$59,661	TBD
J	\$44,567	TBD	\$9,874	\$7,414	TBD	\$27,279	TBD
K	\$109,356	TBD	\$24,387	\$33,165	TBD	\$51,804	TBD
L	\$138,032	TBD	\$30,562	\$43,060	TBD	\$64,410	TBD
M	\$85,685	TBD	\$14,860	\$30,630	TBD	\$40,195	TBD
N	\$61,774	TBD	\$14,260	\$12,558	TBD	\$34,956	TBD
O	\$84,656	TBD	\$22,795	\$16,563	TBD	\$45,298	TBD
P	\$38,997	TBD	\$7,863	\$6,459	TBD	\$24,675	TBD
TOTAL	\$1,649,885	TBD	\$342,429	\$498,078	TBD	\$809,378	TBD

* Task only partially funded. When additional appropriations become available, contracts will to be amended to add funds through a future Request for Applications.

Contracts between the TWDB and the Regional Water Planning Group Political Subdivisions

The Contract budget will address the initial planning activities of the fifth planning cycle, which concludes January 5, 2021. The Contract term will be for the full time period through adoption of the 2021 regional water plans, limited by the budget and scope of work until amended at a future date to cover all tasks required to adopt final plans. The initial scope of work as performed, must address all necessary elements required for preparation of the associated elements of a regional water plan as described in 31 TAC Chapter 357. All proposed work activities and associated dollars must be fully justified.

The documents below, in addition to these instructions and the contract boilerplate, will serve as the core of the regional planning contracts during the contract period and are available at <http://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2021/index.asp>:

- General Guidelines for Fifth Cycle of Regional Water Plan Development
- General Guidelines for Regional Water Planning Data Deliverables (2017-2021)
- Initial Scope of Work for the Fifth Cycle of Regional Water Planning
- All provisions of 31 Texas Administrative Code, Chapters 357 and 358 will serve as the foundational guidance for the development of regional water plans.

Eligible Expenses

Administrative Expenses

Administrative Costs (associated with Political Subdivisions) for Regional Water Plan Development that will be reimbursable under the contract are limited to direct, non-labor costs as outlined in the example Contractor Expense Budget in the Instruction Sheet/Application Checklist.

Start of Reimbursable Period

Staff does not anticipate the TWDB authorizing reimbursement for any activities, other than the cost of posting notice associated with the grant applications,³ that occur prior to the date of public meeting to receive preplanning input from the public.

The required public meeting to receive pre-planning input from the public does not have to occur prior to executing the contracts (regions are not developing a scope of work for their applications); however, TWDB will not reimburse for any activities other than notice costs that occur prior to the date of this public meeting under the TWDB contract.

The public's input on scoping for the 2021 regional water plans may be used by the RWPGs to guide its planning activities and to direct, to the extent practicable under its regional water planning contract, how TWDB funds will be spent within the RWPG's budget during the fifth cycle of planning.

If you have any questions or need any assistance with this process, please contact your TWDB Regional Water Planning Project Manager.

³ Board staff anticipates requesting permission from our Board to allow reimbursement of Political Subdivisions under the contracts for the Fifth cycle for allowable, direct (non-labor) costs associated with posting the public notices associated with the applications only.

AGENDA ITEM 14

Discussion and Appropriate Action Regarding Consultants Work and
Schedule

Potential Issues For The 2016 SCTRWP

February 5, 2015

- 1) Carrizo Aquifer Workgroup (Status: Recommendation Approved)
 - a) Multiple Potentially Feasible Projects Exceed MAG
 - b) TWDB will not allow for over-allocation in the 2016 RWP
- 2) Importing Groundwater from Other Regions (Status: Technical Evaluation Refined per Hays County and Region K)
- 3) Meeting Needs of Formosa (Status: Con Mims has discussed with LNRA)
 - a) Coordination with Regions P and N; Technical Evaluation
- 4) Implementation of TCEQ Estuary Environmental Flow Standards (Status: No documentation from TCEQ; Proceed based on comments with TCEQ)
- 5) Population and/or Water Demand Projections Revisions (Status: Finished)
- 6) Eagle-Ford Shale Demands – Direct, Indirect, and Induced (Status: Finished)
- 7) Whooping Crane Litigation (Status: TAP's appeal to 5th Circuit Denied, Option to Appeal to Supreme Court – March)
- 8) Meeting Steam-Electric Needs in Victoria County (Status: WMS Evaluation Presented)
- 9) Inter-Regional Coordination (e.g. SAWS Vista Ridge & Hays County Forestar) (Status: No Conflict with Region G)
- 10) Legislation (Status: Legislative Session Ended; Responding to legislation adopted in 2013; New Session Underway)

2016 South Central Texas Regional Water Plan
Proposed Workplan for Development

Tasks	Description	2014					2015											
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Task 1	Planning Area Description																	
Task 2a	Non-Pop. Based Demand Projections																	
Task 2b	Population & Demand Projections																	
Task 3	Water Supply Analyses																	
EAHCP	Implementation																	
TAP	Whooping Crane Lawsuit																	
Task 4	Water Management Strategies																	
Task 4a	Needs Assessment																	
Task 4b	ID Potentially Feasible WMSs																	
Task 4b.1	WMS Verification																	
Task 4c	Technical Memorandum																	
Task 4d	WMS Technical Evaluations																	
Task 5	Conservation Recommendations																	
Task 6	Long-term Resource Protection																	
Task 6.1	Cumulative Effects of RWP																	
Task 7	Drought Response Information																	
Task 8	Policies & Recmdtns / Unique Sites																	
Task 9	Infrastructure Funding																	
Task 10	Plan Adoption																	
Task 11	Implement. & Compare to Prv RWPs																	
Task 12a	Prioritization of 2011 WMSs																	
Task 12b	Prioritization of 2016 WMSs																	



IPP Deadline:
May 1, 2015

RWP Deadline:
December 1, 2015

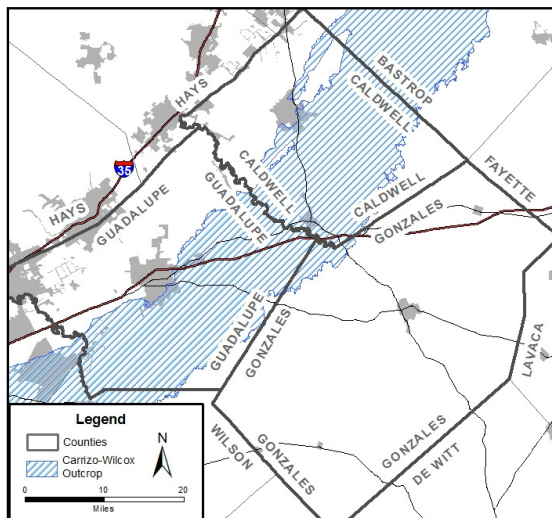
Legend:

- ★ SCTRWPG Action
- ★ TWDB Action
- ↑ Scheduled SCTRWPG Meeting
- ↑ Probable SCTRWPG Meeting

AGENDA ITEM 15

Discussion and Appropriate Action Regarding the Evaluation and Recommendation of Water Management Strategies (Task 4D)

Brush Management – Gonzales County



DRAFT (1-29-15)

1

Brush Management – Gonzales County

- Concept:
 - Brush Management over the Carrizo-Wilcox Outcrop in Guadalupe, Gonzales, and Caldwell Counties
 - Increases Recharge to the Carrizo-Wilcox Aquifer
 - Increases Amount of Water in Storage in Gonzales County
 - Using GAM, Determine the Increase in the MAG While Maintaining the DFC

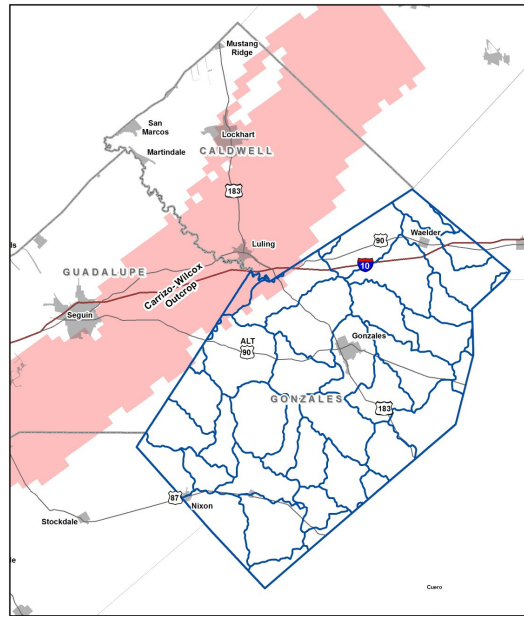
DRAFT (1-29-15)

2

Brush Management – Gonzales County

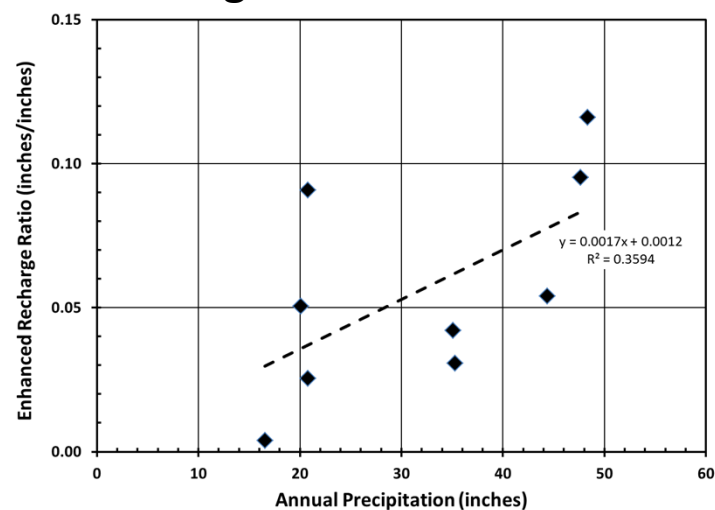
Texas State Soil
and Water
Conservation
Board (TSSWCB)
Study:

Texas Tech's
Ecological
Dynamics
Simulation (EDYS)
Model of Gonzales
County



DRAFT (1-29-15)

Brush Management – Gonzales County



*Enhanced Recharge Ratio = Ratio of Enhanced Recharge to the Annual Precipitation

$$\text{Enhanced Recharge} = \text{Average Annual Precipitation}^2 \times 0.00117$$

DRAFT (1-29-15)

4

Brush Management – Gonzales County

Percent of Landowner Participation	Treated Acres	Average Enhanced Recharge (acft/yr)
10%	43,904	7,916
30%	131,712	23,749
50%	219,520	39,582
100%	439,040	79,163

DRAFT (1-29-15)

5

Brush Management – Gonzales County

- Costs:
 - Costs based on 2011 SCTRWP plus Inflation of 1.5% for 5 years
 - Initial Clearing = \$215.5/acre
 - Maintenance Clearing = \$5.39/acre/yr
(based on \$26.95/acre every 5 years)
 - Monitoring = \$313,500/yr

DRAFT (1-29-15)

6

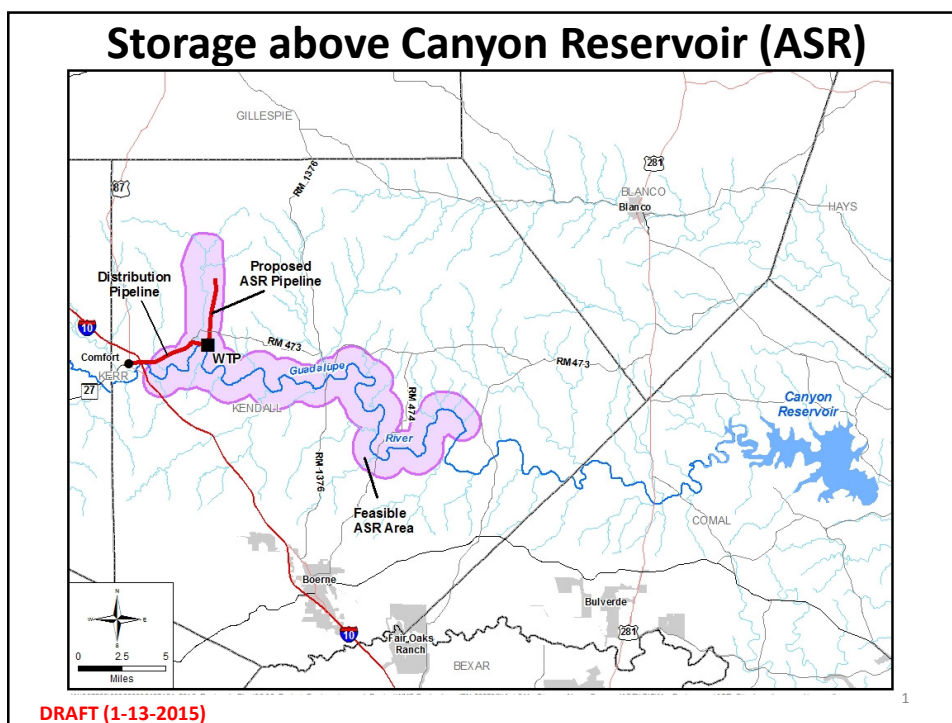
Brush Management – Gonzales County

	10 % Landowner Participation	30 % Landowner Participation	50 % Landowner Participation	100 % Landowner Participation
Carrizo Aquifer MAG Increase (acft/yr)	758	2,274	3,790	6,065
Middle Wilcox Aquifer MAG Increase (acft/yr)	35	105	280	641
Lower Wilcox Aquifer MAG Increase (acft/yr)	576	2,251	2,855	7,204
Total MAG Increase (acft/yr)	1,370	4,631	6,925	13,910
Unit Cost (\$/acft/yr)*	1,209	937	1,015	988

* Costs are based on raw water in the aquifer, and do not include pumping, treatment, or transmission

DRAFT (1-29-15)

7



Storage above Canyon Reservoir (ASR)

- **Purposes and Objectives**
 - Supplemental water supplies
 - Meet seasonal demands when restrictions are active
 - Meet water demand growth in the rural Kendall and Kerr County areas
 - Water security
- **Water Supply**
 - Water Source: Guadalupe River in Kendall County
 - Aquifer Storage Site: Trinity Aquifer in Kendall County
 - Diversions Subject to Prior Appropriation and TCEQ Environmental Flow Standards

DRAFT (1-13-2015)

2

Storage above Canyon Reservoir (ASR)

- Facilities:
 - 15 wells with capacity of 350 gpm
 - Well collection pipelines and pumps
 - 5 MGD WTP at intake site in Kendall County
 - 600 ft intake pipe to WTP (16")
 - 4 mile ASR pipeline (Varies from 10" to 16")
 - 5 mile Transmission pipeline to City of Comfort (6")

DRAFT (1-13-2015)

3

Storage above Canyon Reservoir (ASR)

	Envisioned Project
Capital Costs	\$30,592,000
Project Costs	\$45,203,000
Annual Costs	\$5,985,000
Project Yield (acft/yr)	504
Unit Costs (\$/acft/yr)	\$11,875

DRAFT (1-13-2015)

4

Balancing Storage WMS

- Water management strategy recommended to explicitly recognize that storage needed to: a) firm up supplies from run-of-river diversions or interruptible groundwater sources; and b) to ensure that supplies delivered through long distance conveyance facilities are available to meet daily and seasonal demands is consistent with the 2016 Region L Water Plan.
- Addition of balancing storage on the surface or underground (ASR) is consistent with the 2016 Region L Water Plan if necessary authorizations are obtained pursuant to TCEQ and/or groundwater conservation district rules and applicable law.

DRAFT 1/29/2015

1

Examples of Balancing Storage WMS

- Develop or enhance water supplies through off-channel or underground (ASR) storage authorizations.
- Off-channel or underground (ASR) storage may be added through amendment of existing surface water rights as long as there is no associated adverse impact on other water rights or the environment greater than that with full use prior to amendment (the “No Injury” rule). Additional regulatory requirements may apply.

Technical Evaluation

- Available Yield – Determined using WAM, FRAT, GAM, and/or spreadsheet calculations.
- Environmental Issues – Limited to terrestrial habitat, as surface water or groundwater rights are existing and authorized for use and storage is off-channel or underground.
- Cost – Highly variable depending on location, source water reliability, availability of embankment construction materials, and/or aquifer characteristics.
- Implementation – Increased reliability through combination with existing surface water and/or groundwater supplies.

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Example Entities Using this WMS

- City of Victoria
- Guadalupe-Blanco River Authority
- San Antonio Water System

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Surface Water Rights WMS

- Water management strategy recommended to explicitly recognize that use of water supplies or storage made available under existing water rights by lease or purchase agreements between willing buyers and sellers is consistent with the 2016 Region L Water Plan.
- Addition of diversion points or types and places of use for existing surface water rights is also consistent with the 2016 Region L Water Plan if necessary authorizations are obtained pursuant to TCEQ rules and applicable law.

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Examples of Surface Water Rights WMS

- Develop or enhance water supplies through lease or purchase of existing right(s) having consumptive use and/or impoundment authorizations.
- Diversion point(s), use type(s), and/or place(s) of use may be amended as long as there is no associated adverse impact on other water rights or the environment greater than that with full use prior to amendment (the “No Injury” rule).

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Technical Evaluation

- Available Yield – See existing supply evaluation in Chapter 3 understanding that supply may be reduced pursuant to application of “No Injury” rule in the amendment process.
- Environmental Issues – Limited, as rights are existing and authorized for use.
- Cost – Highly variable depending on location, reliability, and willing buyer/seller negotiations.
- Implementation – Increased reliability through combination with storage and/or alternative supplies. Additional restrictions possible for inter-basin transfer.

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Example Entities Using this WMS

- Canyon Regional Water Authority
- City of Victoria
- Guadalupe-Blanco River Authority
- San Antonio River Authority
- San Antonio Water System

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AGENDA ITEM 16

Discussion and Appropriate Action Regarding the
Recommendations of Potentially Feasible Water Management
Strategies for Inclusion into the 2016 Initially Prepared Regional Water
Plan

2016 SCTRWP Potentially Feasible Water Management Strategies

	Water Management Strategy	YR 2070 Supply (acft/yr)	Sponsor	Notes
Recommended Water Management Strategies	Conservation	Varies	All Municipal Users	
	Drought Management	Varies	Municipal Users	Those with Needs in YR 2020
	CRWA Wells Ranch - Phase 2 - MAG-Limited	7,829*	CRWA	Limited to 7,658 acft/yr in YR 2030
	Brackish Wilcox Groundwater for CRWA - MAG-Limited	3,839	CRWA	
	CRWA Siesta Project	5,042	CRWA	
	Edwards Transfers, Carrizo Transfers, or Trinity	1,200	CRWA	
	Carrizo Aquifer (Wilson Co) - MAG-Limited	0	CVLGC	
	Carrizo Aquifer (Wilson Co) w/ Conversions	8,800	CVLGC	
	GBRA Mid-Basin Project (ASR)	50,000	GBRA	
	GBRA Lower Basin Storage (500 acre site)	51,800	GBRA	
	GBRA Lower Basin New Appropriation	42,000	GBRA	
	Integrated Water-Power Project	100,000	GBRA	
	Victoria County Steam-Electric Project	29,100	GBRA	
	Western Canyon WTP Expansion	N/A	GBRA	Up to 5,600 acft/yr of Capacity
	Hays/Caldwell PUA Project - Phase I & II - MAG-Limited	21,833	HCPUA	
	Lavaca Off-Channel Reservoir	16,963	LNRA	6,963 acft/yr for Region N
	Brackish Wilcox Groundwater for SAWS - MAG-Limited	5,622	SAWS	
	Expanded Local Carrizo - MAG-Limited	5,419	SAWS	
	Vista Ridge Consortium - MAG-Limited	34,894	SAWS	
	Expanded Brackish Project - MAG-Limited	0	SAWS	
	SAWS Seawater Desalination	84,023	SAWS	75 MGD of Potable Supply
	Advanced Meter Infrastructure for SAWS	5,598	SAWS	Supply in terms of Saved Water (Leaks)
	SAWS Conservation Goals	2,792	SAWS	Varies from 2,792 acft/yr to 15,974 acft/yr
	Long-term Drought Management for SAWS	68,190	SAWS	
	SAWS Direct Reuse	15,000	SAWS	
	Water Resources Integration Pipeline	N/A	SAWS	
	Expansion Carrizo Aquifer (Guadalupe County)	5,720	SSLGC	
	Brackish Wilcox (Gonz Co) - MAG-Limited	1,392*	SSLGC	Limited to 0 acft/yr in YR 2030
	TWA Carrizo Project - MAG-Limited	15,000*	TWA	Limited to 14,680 acft/yr in YR 2030
	TWA Trinity Project	5,000	TWA	
	New Braunfels ASR + WTP Expansion	8,300	NBU	
	New Braunfels Trinity	1,090	NBU	
	Hays Forestar Project - MAG-Limited	12,356	Hays County	
	Wimberley/Woodcreek Project	N/A	Hays County	Potential Upsizing for Region K (4,000 acft/yr)
	Uvalde ASR - MAG-Limited	1,155	Uvalde	
	Victoria ASR	TBD	Victoria	
	Victoria Groundwater-Surface Water Exchange	TBD	Victoria	
	Victoria Off-Channel Storage	TBD	Victoria	
	Brackish Wilcox for SS WSC - MAG-Limited	0	SS WSC	
	Facilities Expansions	N/A	Municipal Users	Atascosa Rural WSC, Helotes, Gonzales Co WSC, Springs Hill WSC, Yancey WSC, Port O'Connor, and CCMA
	Edwards Transfers	11,772	Municipal Users	Sabinal, Uvalde, Castroville, East Medina SUD, Hondo, La Coste, Natalia, Yancey WSC, Medina Co Other, Alamo Heights, Atascosa Rural WSC, Converse, Kirby, Leon Valley, SAWS, Shavano Park, Windcrest, CRWA, and Lytle
	Local GW (Carrizo)	2,713	Municipal Users	Cotulla (YR 2050 Needs), La Salle Co Other (YR 2050 Needs), Floresville, Pearsall, Polonia WSC, and Sunko WSC
	Local GW (Wilcox)	2,023	Crystal Clear WSC	
	Local GW (Gulf Coast)	151	Municipal Users	Kenedy
	Local GW (Trinity)	9,298	Municipal Users	Boerne, Garden Ridge, Crystal Clear WSC, and Mountain City
	Local GW (BS Edwards - Brackish)	392	County Line SUD	
	Local GW (Leona Gravel)	869	Municipal Users	Castroville, East Medina Co WSC, La Coste, Natalia, and Yancey WSC
	Local Carrizo Conversion (Irrigation)	720	Municipal Users	Benton City, Polonia WSC, Pearsall, and SS WSC
	Local Carrizo Conversion (Mining)	456	Municipal Users	Cotulla and La Salle Co Other (YR 2050 Needs)
	Local Yegua-Jackson Conversion (Mining)	249	Karnes City	336 acft/yr in YR 2020
	Purchase from CRWA	N/A	8 Municipal Users	Moves water from CRWA to 8 WUGs
	Purchase from CVLGC	N/A	2 Municipal Users	Moves water from CVLGC to 2 WUGs
	Purchase from GBRA	N/A	10 Mun/Ind/SE Users	Moves water from GBRA to 10 WUGs
	Purchase from HCPUA	N/A	3 Mun Users + 1 WWP	Moves water from HCPUA to 3 WUGs & CRWA
	Purchase from LNRA	10,000	Calhoun Co Ind (Formosa)	New Supply Developed by the Lavaca Off-Channel WMS
	Purchase from SAWS	N/A	7 Mun/Ind Users	Moves water from SAWS to 7 WUGs
	Purchase from SSLGC	N/A	4 Municipal Users	Moves water from SSLGC to 4 WUGs
	Purchase from TWA	N/A	4 Municipal Users	Moves water from TWA to 4 WUGs
	Direct Reuse/Recycle	4,849	3 Municipal Users	Kyle, San Marcos, and New Braunfels (NBU)
	Surface WRs	N/A	Municipal Users	
	Balancing Storage	N/A	Municipal Users	
Alternative Water Management Strategies	CRWA Wells Ranch - Phase 2 - Envisioned	7,829	CRWA	
	Brackish Wilcox Groundwater for CRWA - Envisioned	14,700	CRWA	
	Storage Above Canyon (ASR)	504	GBRA	
	Luling ASR	4,277	GBRA	
	MBWSP - Carrizo Groundwater (Option 0)	15,000	GBRA	
	MBWSP - Surface Water w/ Off-Channel Reservoir (Option 2A)	25,000	GBRA	
	MBWSP - Conjunctive Use w/ ASR (Option 3A)	42,000	GBRA	
	Hays Forestar Project - Envisioned	45,000	Hays County	
	Hays/Caldwell PUA Project - Phase I & II - Envisioned	35,690	HCPUA	
	HCPUA/TWA/GBRA Shared Facilities Project	86,513	Multiple	
	HCPUA/TWA Joint	40,690	Multiple	
	Brackish Wilcox Groundwater for SAWS - Envisioned	33,600	SAWS	
	Expanded Local Carrizo - Envisioned	30,000	SAWS	
	Vista Ridge Consortium - Envisioned	50,000	SAWS	
	Expanded Brackish Project - Envisioned	50,000	SAWS	
	Brackish Wilcox for SS WSC - Envisioned	1,120	SS WSC	
	Brackish Wilcox (Gonz Co) - Envisioned	5,000	SSLGC	
	TWA Carrizo Project - Envisioned	15,000	TWA	
	Uvalde ASR - Envisioned	4,000	Uvalde	
Other	Brush Management in Gonzales Co - 10% Participation	1,370	TBD	
	Brush Management in Gonzales Co - 30% Participation	4,631	TBD	
	Brush Management in Gonzales Co - 50% Participation	6,925	TBD	

Atascosa County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Benton City	0	0	0	0	0	25	Conservation, Local Carrizo Conversion
Charlotte	0	0	0	0	0	0	Conservation
Jourdanton	0	0	0	0	0	0	Conservation
Lytle	171	257	333	409	484	554	Conservation, Edwards Transfers, Drought Management
McCoy WSC	0	0	0	0	0	0	Conservation
Pleasanton	0	0	0	0	0	0	Conservation
Poteet	0	0	0	0	0	0	Conservation
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	0	0	0	
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	171	257	333	409	484	579	

WUG	2020	2030	2040	2050	2060	2070	WMS
Alamo Heights	796	848	820	807	805	805	Conservation, Edwards Transfers, Drought Management, Purchase from SAWS
Atascosa Rural WSC	1,167	1,446	1,708	1,970	2,218	2,448	Conservation, Edwards Transfers, Drought Management, Purchase from SAWS
Balcones Heights	0	0	0	0	0	0	Conservation
Castle Hills	0	0	0	0	0	0	Conservation
China Grove	0	0	0	0	0	0	Conservation
Converse	903	1,111	1,297	1,272	1,265	1,264	Conservation, Edwards Transfers, Drought Management, Purchase from CRWA
East Central SUD	0	0	0	0	0	0	Conservation
Elmendorf	0	0	0	0	0	0	Conservation
Fair Oaks Ranch	0	0	0	0	0	0	Conservation
Helotes	0	0	0	0	0	0	Conservation
Hill Country Village	0	0	0	0	0	0	Conservation
Hollywood Park	0	0	0	0	0	0	Conservation
Kirby	137	207	181	172	169	169	Conservation, Edwards Transfers, Drought Management, Purchase from SAWS
Lackland AFB	0	0	0	0	0	0	Conservation
Leon Valley	97	147	196	254	317	377	Conservation, Purchase from SAWS, Edwards Transfers, Drought Management
Live Oak	0	0	0	0	0	0	Conservation
Olmos Park	0	0	0	0	0	0	Conservation
Randolph AFB	0	0	0	0	0	0	Conservation
San Antonio	60,972	82,339	109,029	132,636	156,055	177,826	See SAWS WWP Table
San Antonio Water System	2,418	5,976	9,412	12,942	16,436	19,708	See SAWS WWP Table
Selma	0	16	104	191	270	345	Conservation, Purchase from SSLGC
Shavano Park	425	555	677	797	909	1,013	Conservation, Edwards Transfers, Drought Management
Somerset	0	0	0	0	0	0	Conservation
St. Hedwig	0	0	0	0	0	0	Conservation
Terrell Hills	0	0	0	0	0	0	Conservation
The Oaks WSC	0	0	1	60	114	165	Conservation, Local GW (Trinity), Purchase from SAWS
Universal City	416	431	372	339	333	332	Conservation, Drought Management, Purchase from SSLGC
Von Ormy	0	0	0	0	0	0	Conservation
Water Services Inc.	0	0	0	0	0	0	Conservation
Windcrest	326	343	361	388	420	451	Conservation, Drought Management, Edwards Transfers
County-Other	0	0	0	1,898	4,082	6,084	Conservation, Purchase from SAWS
Manufacturing	0	0	0	0	1,058	3,680	Purchase from SAWS
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	5,191	4,700	4,229	3,778	3,346	2,966	Unmet
Livestock	0	0	0	0	0	0	
Total	72,848	98,119	128,387	157,504	187,797	217,633	

Caldwell County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Aqua WSC	0	0	0	0	0	0	Conservation
Creedmore-Maha WSC	0	0	0	0	0	0	Conservation
Lockhart	188	613	1,042	1,484	1,947	2,402	Conservation, Drought Management, Purchase from GBRA
Luling	0	41	218	402	596	787	Conservation, Purchase from GBRA
Martindale	0	31	66	102	140	177	Conservation, Purchase from CRWA
Maxwell WSC	0	0	0	0	0	0	Conservation
Mustang Ridge	0	0	0	0	0	0	Conservation
Polonia WSC	0	0	0	88	266	442	Conservation, Local Carrizo Conversions
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	0	0	0	
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	188	685	1,326	2,076	2,949	3,808	

Calhoun County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Calhoun County WS	0	0	0	0	0	0	Conservation
Point Comfort	0	0	0	0	0	0	Conservation
Port Lavaca	0	0	0	0	0	0	Conservation
Port O'Connor MUD	0	0	0	0	0	0	Conservation
Seadrift	0	0	0	0	0	0	Conservation
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	2,113	6,945	11,126	Purchase from LNRA (Lavaca OCR), Purchase from GBRA
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	12,273	10,736	9,695	8,949	8,254	7,527	Unmet
Livestock	0	0	0	0	0	0	
Total	12,273	10,736	9,695	11,062	15,199	18,653	

Comal County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Bulverde	0	0	0	0	0	0	Conservation
Canyon Lake WSC	0	521	2,210	3,926	5,640	7,291	Conservation, Purchase from TWA
Garden Ridge	1,023	1,599	2,188	2,786	3,383	3,957	Conservation, Drought Management, Local GW (Trinity), Purchase from SSLGC (150 acft/yr)
New Braunfels	0	1,407	4,803	8,274	11,791	15,196	Conservation, Drought Management, New Braunfels ASR, New Braunfels Trinity, Reuse, Purchase from GBRA
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	4,130	4,881	5,612	6,239	7,120	8,074	Recycled Water, Purchase from GBRA
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	5,153	8,408	14,813	21,225	27,934	34,518	

DeWitt County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Cuero	0	0	0	0	0	0	Conservation
Yoakum	0	0	0	0	0	0	Conservation
Yorktown	0	0	0	0	0	0	Conservation
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	0	0	0	
Mining	44	38	16	2	0	0	Local GW (Gulf Coast)
Steam-Electric	0	0	0	0	0	0	
Irrigation	74	68	39	6	0	0	Local GW (Gulf Coast)
Livestock	0	0	0	0	0	0	
Total	118	106	55	8	0	0	

Dimmit County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Asherton	28	46	61	77	0	0	Conservation, Irr Surface Water Rights Conversion
Big Wells	0	0	0	0	0	0	Conservation
Carrizo Springs	267	399	476	578	0	0	Conservation, Irr Surface Water Rights Conversion
County-Other	297	326	340	362	171	184	Conservation, Irr Surface Water Rights Conversion
Manufacturing	0	0	0	0	0	0	
Mining	4,826	4,908	4,244	2,731	1,222	519	
Steam-Electric	0	0	0	0	0	0	
Irrigation	3,372	3,312	3,082	2,846	2,620	2,466	Increased Unmet Needs (SW Rights)
Livestock	0	0	0	0	0	0	
Total	8,790	8,991	8,203	6,594	4,013	3,169	

Frio County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Dilley	0	0	0	0	0	0	Conservation
Pearsall	0	0	0	0	0	19	Conservation, Local Carrizo Conversion
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	0	0	0	
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	0	0	0	0	0	19	

Goliad County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Goliad	0	0	0	0	0	0	Conservation
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	0	0	0	
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	0	0	0	0	0	0	

Gonzales County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Gonzales	0	0	0	174	92	310	Conservation, Local GW (Carrizo)
Gonzales County WSC	0	3	212	425	206	413	Conservation, Local GW (Carrizo)
Nixon	0	0	0	0	0	0	Conservation
Smiley	0	0	0	0	0	0	Conservation
Waelder	0	0	0	0	0	0	Conservation
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	0	0	0	
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	0	3	212	599	298	723	

Guadalupe County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Cibolo	0	1,814	3,139	4,438	5,764	7,066	Conservation, Purchase from CVLGC/SSLGC
Crystal Clear WSC	0	50	482	959	1,481	2,023	Conservation, Purchase from CRWA, Local GW (Wilcox), Local GW (Trinity)
Green Valley SUD	1,082	1,297	1,533	1,796	2,095	2,391	Conservation, Drought Management, Purchase from CRWA
Marion	0	0	0	0	0	0	Conservation
New Berlin	0	0	0	0	0	0	Conservation
Santa Clara	0	0	0	0	0	0	Conservation
Schertz	0	1,183	2,868	4,583	6,414	8,218	Conservation, Purchase from SSLGC
Seguin	0	0	0	0	0	0	Conservation
Springs Hill WSC	0	0	0	0	0	0	Conservation
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	163	494	854	Purchase from GBRA
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	1,082	4,344	8,022	11,939	16,248	20,552	

Hays County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Buda	0	0	0	0	0	0	Conservation, Purchase from HCPUA
County Line SUD	0	0	0	0	180	392	Conservation, Purchase from CRWA, Local GW (BS Edwards - Brackish), Reuse
Goforth SUD	0	0	0	0	0	93	Conservation, Purchase from GBRA
Kyle	0	1,348	2,801	2,787	2,776	2,772	Conservation, Purchase from HCPUA, Reuse
Mountain City	11	17	25	35	47	60	Conservation, Drought Management, Local GW (Trinity)
Niederwald	62	81	105	134	166	203	Conservation, Drought Management, Purchase from GBRA
Plum Creek Water Company	0	0	0	0	0	0	Conservation
San Marcos	0	0	0	1,965	4,576	7,891	Conservation, Purchase from HCPUA, Reuse
Texas State University - San Marcos	1,561	2,153	2,881	3,721	4,831	5,967	Purchase from WWP?
Uhland	0	0	0	0	0	0	Conservation
Wimberley	0	0	174	456	778	1,146	Conservation, Purchase from TWA/HCPUA/GBRA/SAWS, Hays Forestar Project
Wimberley WSC	0	0	236	564	934	1,356	Conservation, Purchase from TWA/HCPUA/GBRA/SAWS, Hays Forestar Project
Woodcreek	0	0	0	0	0	0	Conservation
County-Other	0	0	0	1,169	6,714	12,872	Conservation, Purchase from TWA/HCPUA/GBRA/SAWS, Hays Forestar Project
Manufacturing	0	0	0	0	0	0	
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	1,634	3,599	6,222	10,831	21,002	32,752	

Karnes County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
El Oso WSC	0	0	0	0	0	0	Conservation
Falls City	0	0	0	0	0	0	Conservation
Karnes City	336	322	298	285	249	249	Conservation, Yegua-Jackson Conversion (Mining)
Kenedy	161	189	179	178	151	151	Conservation, Local GW (Gulf Coast)
Runge	0	0	0	0	0	0	Conservation
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	0	0	0	
Mining	1,864	1,292	700	115	0	0	Conservation, Increased Unmet Needs
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	2,361	1,803	1,177	578	400	400	

Kendall County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Boerne	0	0	337	1,295	2,284	3,258	Conservation, Local GW (Trinity), Western Canyon Expansion
Kendall County WCID #1	0	0	0	0	0	0	Conservation
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	0	0	0	
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	0	0	337	1,295	2,284	3,258	

La Salle County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Cotulla	0	16	155	323	0	0	Conservation, Carrizo Conversion (Mining)
Encinal	0	0	0	0	0	0	Conservation
County-Other	22	56	90	133	0	0	Conservation, Carrizo Conversion (Mining)
Manufacturing	0	0	0	0	0	0	
Mining	4,088	4,243	3,734	2,290	851	147	Conservation, Increased Unmet Needs
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	4,110	4,315	3,979	2,746	851	147	

Medina County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Castroville	224	217	210	208	211	214	Conservation, Drought Management, Edwards Transfers, Local GW (Leona Gravel)
Devine	0	0	0	0	0	0	Conservation
East Medina SUD	0	0	0	0	11	70	Conservation, Edwards Transfers, Local GW (Leona Gravel)
Hondo	523	680	816	943	1,068	1,180	Conservation, Edwards Transfer
LaCoste	10	20	28	37	47	56	Conservation, Drought Management, Edwards Transfers, Local GW (Leona Gravel)
Natalia	101	129	153	176	199	220	Conservation, Drought Management, Edwards Transfers, Local GW (Leona Gravel)
Yancey WSC	28	95	154	208	261	309	Conservation, Drought Management, Edwards Transfers, Local GW (Leona Gravel)
County-Other	0	0	0	0	0	0	
Manufacturing	0	0	0	0	0	0	
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	31,529	29,144	26,850	24,653	22,547	20,689	Unmet
Livestock	0	0	0	0	0	0	
Total	32,415	30,285	28,211	26,225	24,344	22,738	

Refugio County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Refugio	0	0	0	0	0	0	Conservation
Woodsboro	0	0	0	0	0	0	Conservation
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	0	0	0	
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	0	0	0	0	0	0	

Uvalde County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Sabinal	121	153	181	212	245	277	Conservation, Uvalde ASR, Edwards Transfers
Uvalde	943	1,233	1,484	1,772	2,072	2,365	Conservation, Uvalde ASR, Edwards Transfers
County-Other	0	0	0	0	0	0	
Manufacturing	0	0	0	0	0	0	
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	29,683	27,370	24,992	22,831	20,818	19,102	Unmet
Livestock	0	0	0	0	0	0	
Total	30,747	28,756	26,657	24,815	23,135	21,744	

Victoria County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Victoria	3,021	3,877	4,540	5,210	5,841	6,382	Conservation, Drought Management, Victoria ASR, Surface WRs, Off-Channel Storage, Local GW (Gulf Coast)
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	3,215	6,053	8,878	11,403	14,243	17,289	Purchase from GBRA
Mining	0	0	0	0	0	0	
Steam-Electric	4,506	29,778	37,178	53,599	70,696	70,696	Purchase from GBRA
Irrigation	5,002	5,002	5,002	5,002	5,002	5,002	Unmet
Livestock	0	0	0	0	0	0	
Total	15,744	44,710	55,598	75,214	95,782	99,369	

Wison County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Floresville	0	8	405	770	1,124	1,445	Conservation, Local Carrizo Conversion
La Vernia	0	0	0	0	0	0	Conservation
Oak Hills WSC	0	0	0	0	0	0	Conservation
Poth	0	0	0	0	0	0	Conservation
SS WSC	0	0	0	0	0	234	Conservation, Brackish Wilcox for SS WSC, Local Carrizo Conversion
Stockdale	0	0	0	0	0	0	Conservation
Sunko WSC	0	0	0	0	0	117	Conservation, Local Carrizo Conversion
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	0	0	0	
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	0	0	0	0	0	0	
Livestock	0	0	0	0	0	0	
Total	0	8	405	770	1,124	1,796	

Zavala County Needs (Projected Demands less Existing Supplies)

DRAFT (1-29-2015)

WUG	2020	2030	2040	2050	2060	2070	WMS
Crystal City	0	0	0	0	0	0	Conservation
Zavala County WCID #1	0	0	0	0	0	0	Conservation
County-Other	0	0	0	0	0	0	Conservation
Manufacturing	0	0	0	0	0	0	
Mining	0	0	0	0	0	0	
Steam-Electric	0	0	0	0	0	0	
Irrigation	18,487	16,805	14,980	13,049	11,193	9,443	Unmet
Livestock	0	0	0	0	0	0	
Total	18,487	16,805	14,980	13,049	11,193	9,443	

Texas Water Alliance (TWA)**TWA Projected Demands (acft/yr):**

Water Purchaser	Year (acft)					
	2020	2030	2040	2050	2060	2070
Canyon Lake WSC / SJWTX	0	521	2,210	3,926	5,640	7,291
Comal County Rural Areas	0	0	0	0	0	0
Kendall Co Rural Areas	0	0	0	0	0	0
Wimberley	0	0	410	1,020	1,712	2,502
Woodcreek	0	0	0	0	0	0
Hays County Rural Areas	0	0	0	585	3,357	6,436
Blanco County Rural Areas	1,000	5,000	5,000	9,000	9,000	9,000
Total Demand	1,000	5,521	7,620	14,531	19,709	25,229

TWA Supply (acft/yr):

Source	Year (acft)					
	2020	2030	2040	2050	2060	2070
TWA-Carrizo (GMA 13)						
TWA-Trinity (GMA 10)						
TWA-Trinity (GMA 9)						
Total Supply	0	0	0	0	0	0

TWA Projected Needs (acft/yr):

	Year (acft)					
	2020	2030	2040	2050	2060	2070
Total System Management Supplies/(Needs)	(1,000)	(5,521)	(7,620)	(14,531)	(19,709)	(25,229)

TWA Water Management Strategies (WMS) with Estimated Firm Yield (acft/yr):

	Year (acft)					
	2020	2030	2040	2050	2060	2070
<u>Recommended WMS</u>						
Conservation ²						
TWA-Carrizo Well Field ^{1,3}	5,000	14,680	15,000	15,000	15,000	15,000
TWA-Trinity Well Field		500	500	500	5,000	5,000
Total Recommended WMS	5,000	15,180	15,500	15,500	20,000	20,000
Management Supplies with Recommended WMS⁴	4,000	9,659	7,880	969	291	-5,229
<u>Alternative WMS⁴</u>						
TWA-Carrizo Well Field	5,000	15,000	15,000	15,000	15,000	15,000
HCPUA-TWA Joint Project	5,000	10,000	10,000	10,000	10,000	10,000
HCPUA/TWA/GBRA Shared Facilities Project		86,513	86,513	86,513	86,513	86,513

¹ Permitted production as of March 2013.² Assigned by Water User Group (WUG) based on Municipal Conservation WMS recommended by SCTRWPWG.

³ For each aquifer in the region, the GCDs have adopted desired future conditions (DFCs). In some GCDs, full use of all groundwater supplies (permitted, grandfathered and exempt) may result in non-achievement of the DFCs for an aquifer. To ensure consistency with the DFCs, TWDB currently requires that groundwater availability for each aquifer be limited for planning purposes to the modeled available groundwater (MAG) for the aquifer. This has resulted, for planning purposes only, in adjustments to permit amounts, and a lack of firm water available for future permits in this plan for some areas for certain time periods. This should not be construed as recommending or requiring that GCDs make these adjustments, or deny future permit applications. SCTRWPWG recognizes and supports the ability of permit holders to exercise their rights to groundwater use in accordance with their permits and it recognizes and supports the GCDs discretion to issue permits and grandfather historical users for amounts in excess of the MAG. SCTRWPWG may not modify groundwater permits that GCDs have already issued or limit future permits that GCDs may issue. If the MAG is increased during or after this planning cycle, SCTRWPWG may amend this Plan to adjust groundwater supply numbers that are affected by the new MAG amount.

⁴ Management Supplies and Alternative WMS are included in the event that Recommended WMS are not fully developed.

1/19/2015 DRAFT

Schertz-Seguin Local Government Corporation (SSLGC)						
SSLGC Projected Demands (acft/yr):						
Water Purchaser	Year (acft)					
	2020	2030	2040	2050	2060	2070
Schertz	10,835	10,079	9,868	11,583	11,179	10,414
Seguin	3,165	3,921	4,666	5,326	6,028	6,719
Selma	1,050	1,066	1,154	1,241	1,320	1,395
Springs Hill WSC	840	840	840	840	840	840
Converse	500	500	500	500	500	500
Universal City	1,216	1,231	1,172	1,139	1,133	1,132
Cibolo	1,000	2,000	3,000	3,000	3,000	3,000
Garden Ridge	150	150	150	150	150	150
SAWS - Excess Contract	4,059	2,577	2,732	376	0	0
Total Demand	22,815	22,364	24,082	24,155	24,150	24,150
SSLGC Supply:						
Source	Year (acft)					
	2020	2030	2040	2050	2060	2070
Carrizo Aquifer (Gonzales County) ¹	17,039	16,644	17,039	17,039	17,039	17,039
Total Supply	17,039	16,644	17,039	17,039	17,039	17,039
SSLGC Projected Needs:						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Total System Management Supplies/(Needs)	(5,776)	(5,720)	(7,043)	(7,116)	(7,111)	(7,111)
SSLGC Water Management Strategies (WMS) with Estimated Firm Yield (acft/yr):						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Recommended WMS						
Conservation ²	0	0	0	0	0	0
Expansion Carrizo Aquifer (Guadalupe County) ¹	5,720	5,720	5,720	5,720	5,720	5,720
Brackish Wilcox (Gonz Co)	56	0	1,323	1,396	1,392	1,392
Total Recommended WMS	5,776	5,720	7,043	7,116	7,112	7,112
Management Supplies with Recommended WMS⁴	0	0	0	0	0	0
Alternative WMS⁴						
Brackish Wilcox (Gonz Co)	5,000	5,000	5,000	5,000	5,000	5,000
¹ Permitted production as of September 2013, less 12% loss rate.						
² Assigned by Water User Group (WUG) based on Municipal Conservation WMS recommended by SCTRWPWG.						
³ For each aquifer in the region, the GCDs have adopted desired future conditions (DFCs). In some GCDs, full use of all groundwater supplies (permitted, grandfathered and exempt) may result in non-achievement of the DFCs for an aquifer. To ensure consistency with the DFCs, TWDB currently requires that groundwater availability for each aquifer be limited for planning purposes to the modeled available groundwater (MAG) for the aquifer. This has resulted, for planning purposes only, in adjustments to permit amounts, and a lack of firm water available for future permits in this plan for some areas for certain time periods. This should not be construed as recommending or requiring that GCDs make these adjustments, or deny future permit applications. SCTRWPWG recognizes and supports the ability of permit holders to exercise their rights to groundwater use in accordance with their permits and it recognizes and supports the GCDs discretion to issue permits and grandfather historical users for amounts in excess of the MAG. SCTRWPWG may not modify groundwater permits that GCDs have already issued or limit future permits that GCDs may issue. If the MAG is increased during or after this planning cycle, SCTRWPWG may amend this Plan to adjust groundwater supply numbers that are affected by the new MAG amount.						
⁴ Management Supplies and Alternative WMS are included in the event that Recommended WMS are not fully developed.						

10/22/2014 DRAFT

Springs Hill Water Supply Corporation (SHWSC)						
SHWSC Projected Demands (acft/yr):						
	Year (acft)					
Water Purchaser	2020	2030	2040	2050	2060	2070
Springs Hill WSC	1,417	1,621	1,845	2,080	2,337	2,594
City of Seguin (served by SH WSC)	481	512	599	788	988	1,190
Guad Co-Other (served by SH WSC)	489	520	609	801	1,004	1,209
Crystal Clear WSC	50	50	50	50	50	50
Total Demand	2,437	2,703	3,102	3,719	4,379	5,043
SHWSC Supply:						
	Year (acft)					
Source	2020	2030	2040	2050	2060	2070
CRWA (Canyon Reservoir)	1,925	1,925	1,925	1,925	1,925	1,925
CRWA (Wells Ranch Groundwater)	100	100	100	100	100	100
GBRA (Canyon Reservoir)	2,850	2,850	2,850	2,850	2,850	2,850
Carrizo Aquifer (Guadalupe County)	1,107	1,107	1,107	1,107	1,107	1,107
Carrizo Aquifer (Gonzales County) (SSLGC)	722	722	722	722	722	722
Total Supply	6,704	6,704	6,704	6,704	6,704	6,704
SHWSC Projected Needs:						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Total System Management Supplies/(Needs)	4,267	4,001	3,602	2,985	2,325	1,661
SHWSC Water Management Strategies (WMS) with Estimated Firm Yield (acft/yr):						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
WMSs						
Conservation						
Total Recommended WMS	0	0	0	0	0	0
Management Supplies with Recommended WMS	4,267	4,001	3,602	2,985	2,325	1,661
Alternative WMS						

Table 1

San Antonio Water System (SAWS) - Planned						
SAWS Projected Demands (acft/yr):						
	Year (acft)					
Water Purchaser	2020	2030	2040	2050	2060	2070
Balcones Heights	518	566	612	662	711	758
Castle Hills	395	375	359	351	350	349
China Grove	316	350	381	413	445	474
Elmendorf	311	397	478	556	629	696
Helotes	1,613	1,989	2,340	2,681	2,996	3,286
Hill Country Village	234	230	226	224	224	224
Hollywood Park	949	953	959	969	983	997
Leon Valley	558	579	600	624	652	678
Live Oak	1,803	1,806	1,794	1,787	1,786	1,786
Olmos Park	564	623	678	736	791	843
San Antonio	235,329	258,657	280,788	303,809	326,645	347,873
SAWS (outside of San Antonio)	30,536	34,094	37,530	41,060	44,554	47,826
Somerset	221	240	259	279	300	319
Terrell Hills	1,299	1,276	1,257	1,247	1,245	1,245
East Central WSC	448	448	448	448	448	448
Alamo Heights	796	848	820	807	805	805
Atascosa Rural WSC	1,167	1,446	1,708	1,970	2,218	2,448
Kirby	137	207	181	172	169	169
The Oaks WSC	0	0	1	60	114	165
County-Other (Municipal)	0	0	0	1,898	4,082	6,084
Industrial (Bexar County)	15,076	15,076	15,076	15,076	15,076	15,076
Total Demand	292,270	320,160	346,495	375,829	405,223	432,549
SAWS Supply:						
	Year (acft)					
Source	2020	2030	2040	2050	2060	2070
Edwards Aquifer with EAHCP ¹	172,640	172,640	172,640	172,640	172,640	172,640
Carrizo Aquifer (Bexar County)	9,900	9,900	9,900	9,900	9,900	9,900
Carrizo Aquifer (Gonzales County)	11,688	11,688	11,688	11,688	11,688	11,688
Carrizo Aquifer (Gonzales County) - SSLGC Excess	4,059	2,577	2,732	376	0	0
Gonzales Co WSC	1,000	1,000	1,000	1,000	1,000	1,000
Trinity Aquifer ²	2,000	2,000	2,000	2,000	2,000	2,000
Direct Reuse ³	25,000	25,000	25,000	25,000	25,000	25,000
Run-of-River (San Antonio)	5,313	5,313	5,313	5,313	5,313	5,313
CRWA	9,654	9,654	9,654	9,654	9,654	9,654
GBRA (Canyon Reservoir)	2,017	2,017	0	0	0	0
Total Supply	243,271	241,789	239,927	237,571	237,195	237,195
SAWS Projected Needs:						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Total System Management Supplies/(Needs)	(48,999)	(78,371)	(106,568)	(138,258)	(168,028)	(195,354)
SAWS Water Management Strategies (WMS) with Estimated Firm Yield (acft/yr):						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Recommended WMS						
Conservation - Based on SAWS system-wide gpcd ⁴	15,974	10,704	6,901	7,284	8,004	2,792
EAHCP ⁵	0	0	0	0	0	0
Brackish Wilcox Groundwater for SAWS	13,440	33,600	33,600	33,600	33,600	33,600
Expanded Local Carrizo	11,152	30,000	30,000	30,000	30,000	30,000
Vista Ridge Consortium	50,000	50,000	50,000	50,000	50,000	50,000
Expanded Brackish Project	0	50,000	50,000	50,000	50,000	50,000
Direct Reuse Expansion	0	15,000	15,000	15,000	15,000	15,000
Water Resources Integration Pipeline ⁶	0	0	0	0	0	0
Drought Management	14,674	38,517	55,536	59,877	64,184	68,190
Advanced Meter Infrastructure	0	0	0	0	0	0
Seawater Desalination (75 MGD)				84,023	84,023	84,023
Total Recommended WMS	105,240	227,821	241,037	329,783	334,811	333,605
Management Supplies with Recommended WMS ⁷	56,241	149,450	134,469	191,525	166,783	138,251
Alternative WMS ⁷						
		</				

Table 2

San Antonio Water System (SAWS) - With MAG Limitations						
SAWS Projected Demands (acft/yr):						
	Year (acft)					
Water Purchaser	2020	2030	2040	2050	2060	2070
Balcones Heights	518	566	612	662	711	758
Castle Hills	395	375	359	351	350	349
China Grove	316	350	381	413	445	474
Elmendorf	311	397	478	556	629	696
Helotes	1,613	1,989	2,340	2,681	2,996	3,286
Hill Country Village	234	230	226	224	224	224
Hollywood Park	949	953	959	969	983	997
Leon Valley	558	579	600	624	652	678
Live Oak	1,803	1,806	1,794	1,787	1,786	1,786
Olmos Park	564	623	678	736	791	843
San Antonio	235,329	258,657	280,788	303,809	326,645	347,873
SAWS (outside of San Antonio)	30,536	34,094	37,530	41,060	44,554	47,826
Somerset	221	240	259	279	300	319
Terrell Hills	1,299	1,276	1,257	1,247	1,245	1,245
East Central WSC	448	448	448	448	448	448
Alamo Heights	796	848	820	807	805	805
Atascosa Rural WSC	1,167	1,446	1,708	1,970	2,218	2,448
Kirby	137	207	181	172	169	169
The Oaks WSC	0	0	1	60	114	165
County-Other (Municipal)	0	0	0	1,898	4,082	6,084
Industrial (Bexar County)	15,076	15,076	15,076	15,076	15,076	15,076
Total Demand	292,270	320,160	346,495	375,829	405,223	432,549
SAWS Supply:						
	Year (acft)					
Source	2020	2030	2040	2050	2060	2070
Edwards Aquifer with EAHCP ¹	172,640	172,640	172,640	172,640	172,640	172,640
Carrizo Aquifer (Bexar County)	9,900	9,900	9,900	9,900	9,900	9,900
Carrizo Aquifer (Gonzales County)	11,688	11,418	11,688	11,688	11,688	11,688
Carrizo Aquifer (Gonzales County) - SSLGC Excess	4,059	2,577	2,732	376	0	0
Gonzales Co WSC	1,000	1,000	1,000	1,000	1,000	1,000
Trinity Aquifer ²	2,000	2,000	2,000	2,000	2,000	2,000
Direct Reuse ³	25,000	25,000	25,000	25,000	25,000	25,000
Run-of-River (San Antonio)	5,313	5,313	5,313	5,313	5,313	5,313
CRWA	9,654	9,654	9,654	9,654	9,654	9,654
GBRA (Canyon Reservoir)	2,017	2,017	0	0	0	0
Total Supply	243,271	241,519	239,927	237,571	237,195	237,195
SAWS Projected Needs:						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Total System Management Supplies/(Needs)	(48,999)	(78,641)	(106,568)	(138,258)	(168,028)	(195,354)
SAWS Water Management Strategies (WMS) with Estimated Firm Yield (acft/yr):						
	Year (acft)					
Recommended WMS	2020	2030	2040	2050	2060	2070
Conservation - Based on SAWS system-wide gpcd ⁴	15,974	10,704	6,901	7,284	8,004	2,792
EAHCP ⁵	0	0	0	0	0	0
Brackish Wilcox Groundwater for SAWS ⁶	5,622	5,622	5,622	5,622	5,622	5,622
Expanded Local Carrizo ⁶	5,500	5,500	5,500	5,500	5,419	5,419
Vista Ridge Consortium ⁶	19,442	24,240	28,711	32,685	34,894	34,894
Expanded Brackish Project ⁶	0	0	0	0	0	0
Direct Reuse Expansion	0	15,000	15,000	15,000	15,000	15,000
Water Resources Integration Pipeline ⁶	0	0	0	0	0	0
Drought Management	14,674	38,517	55,536	59,877	64,184	68,190
Advanced Meter Infrastructure	0	0	0	0	0	0
Seawater Desalination (75 MGD)				84,023	84,023	84,023
Total Recommended WMS	61,211	99,582	117,269	209,990	217,145	215,940
Management Supplies with Recommended WMS⁷	12,212	20,942	10,701	71,732	49,118	20,586
Alternative WMS⁷						
Brackish Wilcox Groundwater for SAWS	13,440	33,600	33,600	33,600	33,600	33,600
Expanded Local Carrizo	11,152	30,000	30,000	30,000	30,000	30,000
Vista Ridge Consortium	50,000	50,000	50,000	50,000	50,000	50,000
Expanded Brackish Project	0	50,000	50,000	50,000	50,000	50,000

¹ Includes SAWS permits as presented in EAA's permit files, with full implementation of the EAHCP.

² Total permitted volume is 22,660; however, SAWS only considers 2,000 acft/yr to be a firm supply.

³ Amount excludes commitments to streams and lakes.

⁴ Municipal Conservation estimated using SAWS system-wide goal of 135 gpcd.

⁵ Includes all elements of the HCP (VISPO, conservation, SAWS ASR & Irrigation Transfers, and Critical Period Stage V).

⁶ Systems and pipelines have no associated firm yield, but are necessary to deliver new sources of supply to SAWS customers.

⁷ Management Supplies and Alternative WMS are included in the event that Recommended WMS are not fully developed.

⁸ For each aquifer in the region, the GCDs have adopted desired future conditions (DFCs). In some GCDs, full use of all groundwater supplies (permitted, grandfathered and exempt) may result in non-achievement of the DFCs for an aquifer. To ensure consistency with the DFCs, TWDB currently requires that groundwater availability for each aquifer be limited for planning purposes to the modeled available groundwater (MAG) for the aquifer. This has resulted, for planning purposes only, in adjustments to permit amounts, and a lack of firm water available for future permits in this plan for some areas for certain time periods. This should not be construed as recommending or requiring that GCDs make these adjustments, or deny future permit applications. SCTRWPWG recognizes and supports the ability of permit holders to exercise their rights to groundwater use in accordance with their permits and it recognizes and supports the GCDs discretion to issue permits and grandfather historical users for amounts in excess of the MAG. SCTRWPWG may not modify groundwater permits that GCDs have already issued or limit future permits that GCDs may issue. If the MAG is increased during or after this planning cycle, SCTRWPWG may amend this Plan to adjust groundwater supply numbers that are affected by the new MAG amount.

12/2/2014 DRAFT

Hays-Caldwell Public Utility Agency (HCPUA)						
HCPUA Projected Demands (acft/yr):						
	Year (acft)					
Water Purchaser	2020	2030	2040	2050	2060	2070
CRWA (Lake Dunlap System)	2,182	2,634	1,634	3,744	3,744	3,744
CRWA (Hays Caldwell System)	1,000	2,000	3,000	3,000	3,000	3,000
Buda	0	667	1,690	2,974	4,033	4,426
Kyle	0	1,348	2,801	2,787	2,776	2,772
San Marcos	0	0	0	1,965	4,576	7,891
Total Demand	3,182	6,649	9,125	14,470	18,129	21,833
HCPUA Supply:						
	Year (acft)					
Source	2020	2030	2040	2050	2060	2070
Total Supply	0	0	0	0	0	0
HCPUA Projected Needs:						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Total System Management Supplies/(Needs)	(3,182)	(6,649)	(9,125)	(14,470)	(18,129)	(21,833)
HCPUA Water Management Strategies (WMS) with Estimated Firm Yield (acft/yr):						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Recommended WMS						
Conservation ²						
Phase 1 ¹	10,300	15,000	15,000	15,000	15,000	15,000
Phase 2 - Carrizo/Wilcox ³				6,831	6,833	6,833
Total Recommended WMS	10,300	15,000	15,000	21,831	21,833	21,833
Management Supplies with Recommended WMS⁴	7,118	8,352	5,876	7,361	3,704	0
Alternative WMS⁴						
Phase 2 - Carrizo/Wilcox				20,690	20,690	20,690
HCPUA/TWA Joint	15,300	15,300	30,000	40,690	40,690	40,690
HCPUA/TWA/GBRA Shared Facilities Project	15,300	15,300	30,000	40,690	40,690	40,690
¹ Permitted production is 10,300 acft/yr as of March 2013 from Gonzales Co UWCD (Carrizo)						
² Assigned by Water User Group (WUG) based on Municipal Conservation WMS recommended by SCTRWPWG.						
³ For each aquifer in the region, the GCDs have adopted desired future conditions (DFCs). In some GCDs, full use of all groundwater supplies (permitted, grandfathered and exempt) may result in non-achievement of the DFCs for an aquifer. To ensure consistency with the DFCs, TWDB currently requires that groundwater availability for each aquifer be limited for planning purposes to the modeled available groundwater (MAG) for the aquifer. This has resulted, for planning purposes only, in adjustments to permit amounts, and a lack of firm water available for future permits in this plan for some areas for certain time periods. This should not be construed as recommending or requiring that GCDs make these adjustments, or deny future permit applications. SCTRWPWG recognizes and supports the ability of permit holders to exercise their rights to groundwater use in accordance with their permits and it recognizes and supports the GCDs discretion to issue permits and grandfather historical users for amounts in excess of the MAG. SCTRWPWG may not modify groundwater permits that GCDs have already issued or limit future permits that GCDs may issue. If the MAG is increased during or after this planning cycle, SCTRWPWG may amend this Plan to adjust groundwater supply numbers that are affected by the new MAG amount						
⁴ Management Supplies and Alternative WMS are included in the event that Recommended WMS are not fully developed.						

1/28/2015 DRAFT

Guadalupe-Blanco River Authority (GBRA)						
GBRA Projected Demands (acft/yr):						
	Year (acft)					
Water Purchaser	2020	2030	2040	2050	2060	2070
Municipal (Canyon Reservoir)						
<u>Upper Basin - At or Above Canyon Reservoir</u>						
Canyon Lake WSC	6,000	6,000	6,000	6,000	6,000	6,000
City of Blanco (through Canyon Lake WSC)	600	600	600	600	600	600
HH Ranch Properties	250	250	250	250	250	250
Domestic Contracts	10	10	10	10	10	10
Canyon Lake WSC (formerly Rebecca Creek MUD)	130	130	130	130	130	130
Kendall County Rural	0	0	0	0	0	0
Kerr County MOU		2,000	2,000	2,000	2,000	2,000
Upstream Diversion Contracts	155	155	155	155	155	155
WW Sports	1	1	1	1	1	1
Yacht Club	10	10	10	10	10	10
SJWTX - Bulverde (Western Canyon)	400	400	400	400	400	400
SJWTX - Park Village (Western Canyon)	322	322	322	322	322	322
City of Boerne (Western Canyon)	3,611	3,611	3,948	4,906	5,895	6,869
City of Fair Oaks Ranch (Western Canyon)	1,850	1,850	1,850	1,850	1,850	1,850
Cordillera Ranch (Western Canyon)	1,000	1,000	1,000	1,000	1,000	1,000
DH Invest.-Johnson Ranch (Western Canyon)	400	400	400	400	400	400
Lerin Hills (Western Canyon)	750	750	750	750	750	750
Kendall & Tapatio (Western Canyon)	750	750	750	750	750	750
Comal Trace (Western Canyon)	100	100	100	100	100	100
SAWS (Western Canyon)	2,017	2,017				
Western Canyon Sub-Total	11,200	11,200	9,520	10,478	11,467	12,441
Total Upper Basin Municipal (Canyon Reservoir)	18,356	20,356	18,676	19,634	20,623	21,597
<u>Mid Basin - Below Canyon Dam to Above Victoria</u>						
CRWA - Guadalupe River Basin Customers	4,000	4,000	4,000	4,000	4,000	4,000
CRWA - Cibolo	1,350	1,350	1,350	1,350	1,350	1,350
CRWA - East Central SUD	1,400	1,400	1,400	1,400	1,400	1,400
CRWA - Green Valley SUD	1,800	1,800	1,800	1,800	1,800	1,800
CRWA - Marion	100	100	100	100	100	100
CRWA - Springs Hill WSC	1,925	1,925	1,925	1,925	1,925	1,925
CRWA Dunlap Current Contract Subtotal	10,575	10,575	10,575	10,575	10,575	10,575
CRWA Dunlap Future Contract	0	0	0	0	0	0
Comal County Rural	0	0	0	0	0	0
New Braunfels Utilities	9,720	10,072	10,921	11,789	12,668	13,519
Crystal Clear WSC	800	800	800	800	800	800
City of Seguin	1,000	1,000	1,000	1,000	1,000	1,000
Dittmar, Gary	5	5	5	5	5	5
Dittmar, Ray	5	5	5	5	5	5
Gonzales County WSC	700	700	700	700	700	700
Green Valley SUD	1,000	1,000	1,000	1,000	1,000	1,000
Springs Hill WSC	2,500	2,500	2,500	2,500	2,500	2,500
Canyon Regional Water Authority (H/C WTP)	2,038	2,038	2,038	2,038	2,038	2,038
Wimberley & Wimberley WSC	0	0	410	1,020	1,712	2,502
Hays County Rural				1,169	6,714	12,872
City of Niederwald (San Marcos WTP)	62	81	105	134	166	203
City of Buda (San Marcos WTP)	1,680	1,680	1,680	1,680	1,680	1,680
City of Kyle (San Marcos WTP)	5,443	5,443	5,443	5,443	5,443	5,443
Sunfield MUD (San Marcos WTP)	3,136	3,136	3,136	3,136	3,136	3,136
Plum Creek WC/Monarch (San Marcos WTP)	560	560	560	560	560	560
City of San Marcos (San Marcos WTP)	10,000	10,000	10,000	10,000	10,000	10,000
Goforth WSC (San Marcos WTP)	1,050	1,050	1,050	1,050	1,050	1,143
San Marcos WTP Sub-Total	21,931	21,950	21,974	22,003	22,035	22,165
Total Mid Basin Municipal (Canyon Reservoir)	50,274	50,645	51,928	54,604	61,752	69,681

1/28/2015 DRAFT

<u>Lower Basin - At or Below Victoria</u>						
City of Victoria (pursuant to Canyon Amendment)	1,240	1,240	1,240	1,240	1,240	1,240
Total Lower Basin Municipal (Canyon Reservoir)	1,240	1,240	1,240	1,240	1,240	1,240
<u>Industrial/Steam-Electric (Canyon Reservoir)</u>						
<u>Mid Basin - Below Canyon Dam to Above Victoria</u>						
Acme Brick	25	25	25	25	25	25
CMC Steel	700	700	700	700	700	700
Guadalupe County	2	2	2	2	2	2
Temple Inland (St. Gyp)	258	258	258	258	258	258
Guadalupe County Manufacturing	0	0	0	163	494	854
Comal Fair	1	1	1	1	1	1
Comal Road Department	3	3	3	3	3	3
Comal County Manufacturing	4,130	4,881	5,612	6,239	7,120	8,074
GPP (Panda Energy)	6,840	6,840	6,840	6,840	6,840	6,840
Hays Energy LP	2,464	2,464	2,464	2,464	2,464	2,464
Total Mid Basin Industrial/SE (Canyon Reservoir)	14,423	15,174	15,905	16,695	17,907	19,221
<u>Lower Basin - At or Below Victoria</u>						
Coletto Creek	6,000	6,000	6,000	6,000	6,000	6,000
Dow/UCC	100	100	100	100	100	100
Total Lower Basin Industrial/SE (Canyon Reservoir)	6,100	6,100	6,100	6,100	6,100	6,100
<u>Irrigation (Canyon Reservoir)</u>						
Irrigation Contracts (Upper Basin)	250	250	250	250	250	250
Irrigation Contracts (Mid-Basin)	342	342	342	342	342	342
Canyon Reservoir Total	90,985	94,107	94,441	98,865	108,214	118,431
<u>Mid-Basin Municipal (San Marcos Run-of-River)</u>						
Lockhart	1,120	1,120	1,120	1,484	1,947	2,402
Luling	1,680	1,680	1,680	1,680	1,684	1,875
Mid-Basin Municipal (San Marcos Run-of-River) Total	2,800	2,800	2,800	3,164	3,631	4,277
<u>Lower Basin Municipal (Run-of-River, Firm)</u>						
Calhoun County Rural WSC	1,500	1,500	1,500	1,500	1,500	1,500
Port Lavaca	4,480	4,480	4,480	4,480	4,480	4,480
Port O'Conner MUD	1,120	1,120	1,120	1,120	1,120	1,120
Victoria County Rural	0	0	0	0	0	0
Total Lower Basin Municipal (Run-of-River, Firm)	7,100	7,100	7,100	7,100	7,100	7,100
<u>Lower Basin Industrial/SE (Run-of-River, Firm)</u>						
INEOS	3,300	3,300	3,300	3,300	3,300	3,300
Seadrift Coke	1,000	1,000	1,000	1,000	1,000	1,000
Dow/UCC	20,000	20,000	20,000	20,000	20,000	20,000
Calhoun County Industry (Lavaca-Guadalupe)	0	0	0	2,456	7,288	11,469
Calhoun County Industry (Colorado-Lavaca)	10,000	10,000	10,000	10,000	10,000	10,000
Victoria County Industry	3,215	6,053	8,878	11,403	14,243	17,289
Victoria County Steam-Electric	4,506	29,778	37,178	53,599	70,696	70,696
Total Lower Basin Industrial/SE (Run-of-River, Firm)	42,021	70,131	80,356	101,758	126,527	133,754
<u>Lower Basin Industrial/SE (Run-of-River, Interruptible)</u>						
Calhoun & Victoria Counties	0	0	0	0	0	0
Total Lower Basin Industrial/SE (Run-of-River, Interruptible)	0	0	0	0	0	0
<u>Lower Basin Irrigation (Run-of-River, Interruptible)</u>						
Irrigation Agreements	13,472	11,935	10,894	10,148	9,453	8,726
Lower Basin (Run-of-River, Firm) Total	49,121	77,231	87,456	108,858	133,627	140,854
Lower Basin (Run-of-River, Interruptible) Total	13,472	11,935	10,894	10,148	9,453	8,726
Total Demand	156,378	186,073	195,591	221,035	254,925	272,288
Total Upper Basin Demand	18,606	20,606	18,926	19,884	20,873	21,847
Total Mid-Basin Demand	67,839	68,961	70,975	74,805	83,632	93,521
Total Lower Basin Demand	69,933	96,506	105,690	126,346	150,420	156,920
Total Demand	156,378	186,073	195,591	221,035	254,925	272,288

1/28/2015 DRAFT

GBRA Existing Supplies (acft/yr):						
	Year (acft)					
Source	2020	2030	2040	2050	2060	2070
Canyon Reservoir (Firm, Daily Basis)	89,100	88,960	88,820	88,680	88,540	88,400
San Marcos Run-of-River Rights (Interruptible)	4,422	4,422	4,422	4,422	4,422	4,422
San Marcos Run-of-River Rights (Firm)	0	0	0	0	0	0
Lower Basin Run-of-River Rights (Interruptible, Daily Basis)	131,288	131,288	131,288	131,288	131,288	131,288
Lower Basin Run-of-River Rights (Firm, Daily Basis)	44,213	44,213	44,213	44,213	44,213	44,213
Total Supply (Firm)	133,313	133,173	133,033	132,893	132,753	132,613
GBRA Projected Management Supplies or Needs (acft/yr):						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Canyon Reservoir Firm Mgmt. Supplies / (Needs)	(1,885)	(5,147)	(5,621)	(10,185)	(19,674)	(30,031)
San Marcos Run-of-River Firm Mgmt. Supplies / (Needs)	(2,800)	(2,800)	(2,800)	(3,164)	(3,631)	(4,277)
Lower Basin Run-of-River Firm Mgmt. Supplies / (Needs)	(4,908)	(33,018)	(43,243)	(64,645)	(89,414)	(96,641)
Total System Management Supplies / (Needs)	(9,593)	(40,965)	(51,664)	(77,994)	(112,719)	(130,949)
GBRA Water Management Strategies (WMS) with Estimated Firm Yield (acft/yr):						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Recommended WMS						
Conservation ¹						
MBWSP - Surface Water w/ ASR (Option 3C)	50,000	50,000	50,000	50,000	50,000	50,000
Wimberley/Woodcreek Project ²						
Western Canyon WTP Expansion						
Integrated Water-Power Project (Upper & Mid Basin)					50,000	50,000
GBRA Lower Basin Storage (500 acre Site)	51,800	51,800	51,800	51,800	51,800	51,800
GBRA New Appropriation (Lower Basin)				42,000	42,000	42,000
Victoria County Steam-Electric Project				29,100	29,100	29,100
Integrated Water-Power Project (Lower Basin)	50,000	50,000	50,000	50,000	50,000	50,000
Upper & Mid-Basin Management Supplies w/Recommended WMS	45,315	42,053	41,579	36,651	26,695	15,692
Lower Basin Firm Management Supplies w/Recommended WMS	96,892	68,782	58,557	108,255	133,486	126,259
Alternative WMS						
Luling ASR		4,277	4,277	4,277	4,277	4,277
MBWSP - Carrizo Groundwater (Option 0)		15,000	15,000	15,000	15,000	15,000
MBWSP - Surface Water w/ Off-Channel Reservoir (Option 2A)		25,000	25,000	25,000	25,000	25,000
MBWSP - Conjunctive Use w/ ASR (Option 3A)		42,000	42,000	42,000	42,000	42,000
HCPUA/TWA/GBRA Shared Facilities Project		86,513	86,513	86,513	86,513	86,513
Storage Above Canyon Reservoir (ASR)		504	504	504	504	504
WMS Needing Further Study Prior to Implementation						
Brush Management		TBD	TBD	TBD	TBD	TBD
¹ Assigned by Water User Group (WUG) based on Municipal Conservation WMS recommended by the SCTRWP.						
² Project is a Facilities Expansion WMS including transmission facilities for treated water from the San Marcos area to Wimberley.						

1/20/2015 DRAFT

Cibolo Valley Local Government Corporation (CVLGC)						
CVLGC Projected Demands (acft/yr):						
Water Purchaser	Year (acft)					
	2020	2030	2040	2050	2060	2070
Cibolo	0	1,814	3,139	4,438	5,764	7,066
Schertz	0	0	0	0	2,235	4,804
Total Demand	0	1,814	3,139	4,438	7,999	11,870
CVLGC Supply:						
Source	Year (acft)					
	2020	2030	2040	2050	2060	2070
Total Supply	0	0	0	0	0	0
CVLGC Projected Needs:						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Total System Management Supplies/(Needs)	0	(1,814)	(3,139)	(4,438)	(7,999)	(11,870)
CVLGC Water Management Strategies (WMS) with Estimated Firm Yield (acft/yr):						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Recommended WMS						
Conservation ²						
Carrizo Aquifer (Wilson Co)	0	0	0	0	0	0
w/ Transfers	8,800	8,800	8,800	8,800	8,800	8,800
Total Recommended WMS	8,800	8,800	8,800	8,800	8,800	8,800
Management Supplies with Recommended WMS⁴	8,800	6,986	5,661	4,362	801	-3,070
Alternative WMS⁴						

¹ Permitted production as of September 2013, less 12% loss rate.

² Assigned by Water User Group (WUG) based on Municipal Conservation WMS recommended by SCTRWPWG.

³ For each aquifer in the region, the GCDs have adopted desired future conditions (DFCs). In some GCDs, full use of all groundwater supplies (permitted, grandfathered and exempt) may result in non-achievement of the DFCs for an aquifer. To ensure consistency with the DFCs, TWDB currently requires that groundwater availability for each aquifer be limited for planning purposes to the modeled available groundwater (MAG) for the aquifer. This has resulted, for planning purposes only, in adjustments to permit amounts, and a lack of firm water available for future permits in this plan for some areas for certain time periods. This should not be construed as recommending or requiring that GCDs make these adjustments, or deny future permit applications. SCTRWPWG recognizes and supports the ability of permit holders to exercise their rights to groundwater use in accordance with their permits and it recognizes and supports the GCDs discretion to issue permits and grandfather historical users for amounts in excess of the MAG. SCTRWPWG may not modify groundwater permits that GCDs have already issued or limit future permits that GCDs may issue. If the MAG is increased during or after this planning cycle, SCTRWPWG may amend this Plan to adjust groundwater supply numbers that are affected by the new MAG amount.

⁴ Management Supplies and Alternative WMS are included in the event that Recommended WMS are not fully developed.

Canyon Regional Water Authority (CRWA)						
CRWA Projected Demands (acft/yr):						
Lake Dunlap/Wells Ranch Group Current Demand	Year (acft)					
	2020	2030	2040	2050	2060	2070
San Antonio Water System	6,800	6,800	6,800	6,800	6,800	6,800
City of Cibolo	2,550	2,550	2,550	2,550	2,550	2,550
East Central WSC	1,900	1,900	1,900	1,900	1,900	1,900
Green Valley SUD	2,500	2,500	2,500	2,500	2,500	2,500
City of La Vernia	400	400	400	400	400	400
City of Marion	200	200	200	200	200	200
Springs Hills WSC	2,025	2,025	2,025	2,025	2,025	2,025
Crystal Clear WSC	800	1,540	1,540	1,540	1,540	1,540
Converse	0	0	0	0	0	0
Total Current Demand	17,175	17,915	17,915	17,915	17,915	17,915
Lake Dunlap/Wells Ranch Group Potential Future Demand	Year (acft)					
	2020	2030	2040	2050	2060	2070
San Antonio Water System	0	0	0	0	0	0
City of Cibolo	0	0	0	0	0	0
East Central WSC		500	500	500	500	500
Green Valley SUD	3,490	4,490	4,490	8,490	8,490	13,490
City of La Vernia	0	25	81	133	184	229
City of Marion	0	0	0	0	0	0
Crystal Clear WSC	800	1,540	1,540	1,540	1,540	1,540
Converse	903	1,111	1,297	1,272	1,265	1,264
Total Future Demand	5,193	7,666	7,908	11,935	11,979	17,023
Lake Dunlap/Wells Ranch Group Total Demand	Year (acft)					
	2020	2030	2040	2050	2060	2070
San Antonio Water System	6,800	6,800	6,800	6,800	6,800	6,800
City of Cibolo	2,550	2,550	2,550	2,550	2,550	2,550
East Central WSC	1,900	2,400	2,400	2,400	2,400	2,400
Green Valley SUD	5,990	6,990	6,990	10,990	10,990	15,990
City of La Vernia	400	425	481	533	584	629
City of Marion	200	200	200	200	200	200
Springs Hills WSC	2,025	2,025	2,025	2,025	2,025	2,025
Crystal Clear WSC	1,600	3,080	3,080	3,080	3,080	3,080
Converse	903	1,111	1,297	1,272	1,265	1,264
Total Demand	22,368	25,581	25,823	29,850	29,894	34,938
CRWA Supply:						
	Year (acft)					
Source	2020	2030	2040	2050	2060	2070
GBRA - Lake Dunlap	10,575	10,575	10,575	10,575	10,575	10,575
Wells Ranch Phase I	5,200	5,200	5,200	5,200	5,200	5,200
Purchase from Springs Hill						
Run-of-River Water Rights	490	490	490	490	490	490
Total Supply	16,265	16,265	16,265	16,265	16,265	16,265
CRWA Projected Needs:						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Total System Management Supplies/(Needs)	(6,103)	(9,316)	(9,558)	(13,585)	(13,629)	(18,673)
CRWA Water Management Strategies (WMS) with Estimated Firm Yield (acft/yr):						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Recommended WMS						
Conservation ¹						
CRWA Wells Ranch - Phase 2 ³	7,829	7,658	7,829	7,829	7,829	7,829
Hays/Caldwell PUA ³	2,182	2,634	1,634	3,744	3,744	3,744
Brackish Wilcox Groundwater for CRWA ³		1,112	2,791	3,323	3,839	3,839
CRWA Siesta Project		5,042	5,042	5,042	5,042	5,042
Total Recommended WMS	10,011	16,446	17,295	19,938	20,454	20,454
Management Supplies with Recommended WMS ²	3,908	7,130	7,737	6,353	6,825	1,781
Alternative WMS ²						
CRWA Wells Ranch - Phase 2 ³	7,829	7,829	7,829	7,829	7,829	7,829
Hays/Caldwell PUA ³	8,025	8,025	8,025	8,025	8,025	8,025
Brackish Wilcox Groundwater for CRWA ³		14,700	14,700	14,700	14,700	14,700
HCPUA/TWA Joint	9,569	9,569	9,569	9,569	9,569	9,569

CRWA Projected Demands (acft/yr):						
Hays Caldwell Area Current Demand	Year (acft)					
	2020	2030	2040	2050	2060	2070
County Line SUD	1,308	1,308	1,308	1,308	1,308	1,308
Crystal Clear WSC	500	500	500	500	500	500
Martindale	190	190	190	190	190	190
Maxwell WSC	900	900	900	900	900	900
Total Current Demand	2,898	2,898	2,898	2,898	2,898	2,898
Hays Caldwell Area Future Demand	Year (acft)					
	2020	2030	2040	2050	2060	2070
County Line SUD	0	0	0	0	180	392
Crystal Clear WSC	0	0	0	0	0	0
Martindale	0	31	66	102	140	177
Maxwell WSC	0	0	0	0	0	0
Total Future Demand	0	31	66	102	320	569
Hays Caldwell Area Total Demand	Year (acft)					
	2020	2030	2040	2050	2060	2070
County Line SUD	1,308	1,308	1,308	1,308	1,488	1,700
Crystal Clear WSC	500	500	500	500	500	500
Martindale	190	221	256	292	330	367
Maxwell WSC	900	900	900	900	900	900
Total Demand	2,898	2,929	2,964	3,000	3,218	3,467
CRWA Supply:						
Source	Year (acft)					
	2020	2030	2040	2050	2060	2070
GBRA - Hays/Caldwell	2,038	2,038	2,038	2,038	2,038	2,038
Water Right Leases	540	540	540	540	540	540
Total Supply	2,578	2,578	2,578	2,578	2,578	2,578
CRWA Projected Needs:						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
Total System Management Supplies/(Needs)	(320)	(351)	(386)	(422)	(640)	(889)
CRWA Water Management Strategies (WMS) with Estimated Firm Yield (acft/yr):						
	Year (acft)					
	2020	2030	2040	2050	2060	2070
<u>Recommended WMS</u>						
Conservation ¹						
Hays/Caldwell PUA ³	1,000	2,000	3,000	3,000	3,000	3,000
Total Recommended WMS	1,000	2,000	3,000	3,000	3,000	3,000
Management Supplies with Recommended WMS²	680	1,649	2,614	2,578	2,360	2,111
<u>Alternative WMS²</u>						
HCPUA/TWA Joint	1,000	2,000	3,000	3,000	3,000	3,000
TOTAL HC PUA Supply	3,182	4,634	4,634	6,744	6,744	6,744
¹ Assigned by Water User Group (WUG) based on Municipal Conservation WMS recommended by SCTRWPG.						
² Management Supplies and Alternative WMS are included in the event that Recommended WMS are not fully developed.						
³ For each aquifer in the region, the GCDs have adopted desired future conditions (DFCs). In some GCDs, full use of all groundwater supplies (permitted, grandfathered and exempt) may result in non-achievement of the DFCs for an aquifer. To ensure consistency with the DFCs, TWDB currently requires that groundwater availability for each aquifer be limited for planning purposes to the modeled available groundwater (MAG) for the aquifer. This has resulted, for planning purposes only, in adjustments to permit amounts, and a lack of firm water available for future permits in this plan for some areas for certain time periods. This should not be construed as recommending or requiring that GCDs make these adjustments, or deny future permit applications. SCTRWPG recognizes and supports the ability of permit holders to exercise their rights to groundwater use in accordance with their permits and it recognizes and supports the GCDs discretion to issue permits and grandfather historical users for amounts in excess of the MAG. SCTRWPG may not modify groundwater permits that GCDs have already issued or limit future permits that GCDs may issue. If the MAG is increased during or after this planning cycle, SCTRWPG may amend this Plan to adjust groundwater supply numbers that are affected by the new MAG amount.						

AGENDA ITEM 17

Discussion and Appropriate Action Regarding Chapter 6 Cumulative
Effects Procedures

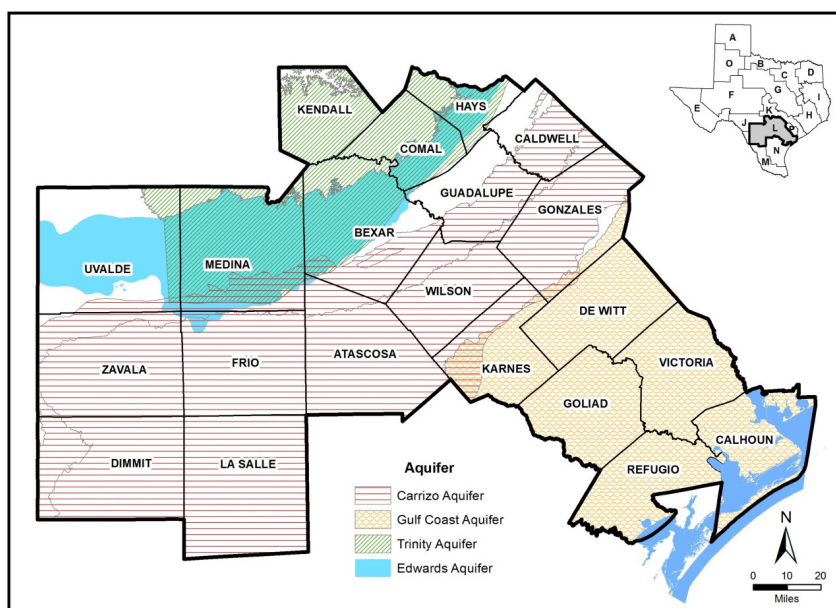
Cumulative Effects of the 2016 Plan (Chapter 6)

- Describe the Potential Impacts of the Regional Water Plan and How the Plan is Consistent with Long-term Protection of Water Resources, Agricultural Resources, and Natural Resources
- Hydrologic Assessments
 - Reporting of Groundwater Levels Based on Full Use of the MAGs
 - Evaluation of Surface Water Flows at 7 Locations Throughout the Region

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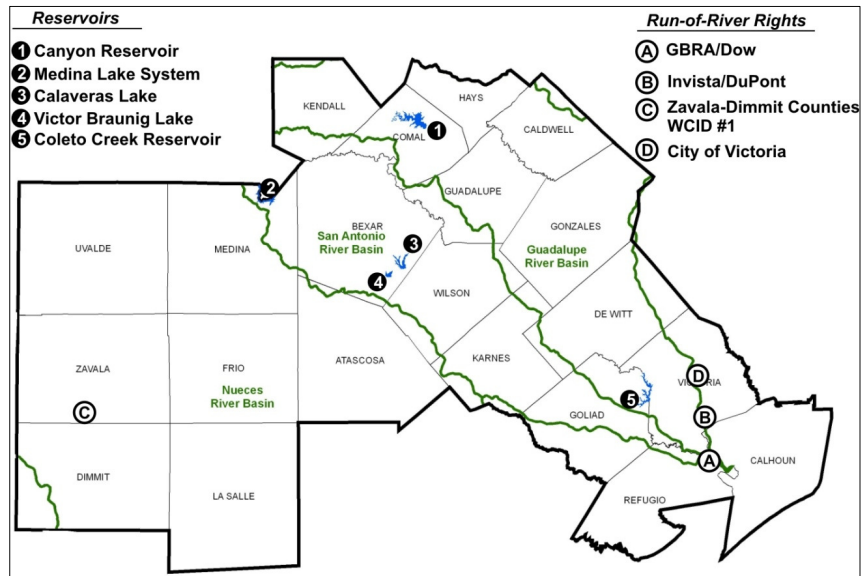
1

Cumulative Effects of the 2016 Plan (Chapter 6)



DRAFT (1-26-15)

Cumulative Effects of the 2016 Plan (Chapter 6)



DRAFT (1-26-15)

3

Cumulative Effects of the 2016 Plan (Chapter 6)

Guadalupe – San Antonio River Basin

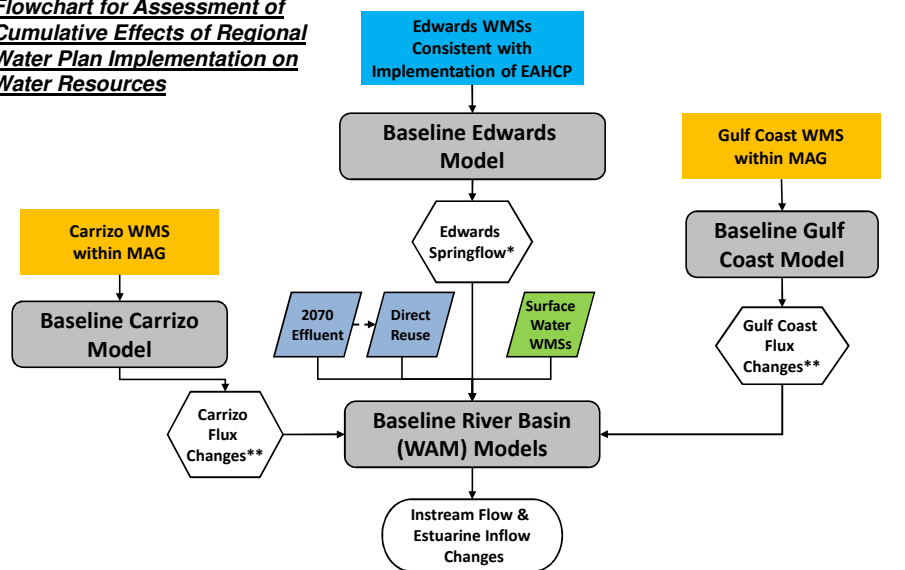
- 1) Guadalupe River above Comal River @ New Braunfels
- 2) San Marcos River @ Luling
- 3) Guadalupe River @ Victoria
- 4) San Antonio River near Falls City
- 5) San Antonio River @ Goliad
- 6) Guadalupe River @ Saltwater Barrier near Tivoli
- 7) Guadalupe Estuary

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(1-26-15)

4

Cumulative Effects of the 2016 Plan (Chapter 6)

Flowchart for Assessment of Cumulative Effects of Regional Water Plan Implementation on Water Resources



DRAFT (1-26-15)

* Springflows Consistent with Full EAHCP Implementation

** Flux Changes at Full MAG Pumpage Levels

2016 South Central Texas
Initially Prepared Plan

Cumulative Effects of the 2016 Plan (Chapter 6)

- Evaluate Streamflows and Estuary Inflows for 2 Scenarios

1. Baseline (SCTRWPs Surface Water Supply Evaluation)

- Edwards Springflows with EAHCP Implementation
- Effluent Consistent with 2011 Reported Discharges, Adjusted for Current Levels of Reuse
- Water Rights at Full Authorized Consumptive Levels

2. With RWP Implementation*

- Edwards Springflows with EAHCP Implementation
- Effluent Consistent with Projected Discharge Levels, Adjusted for Planned Level of Reuse
- Water Rights at Full Authorized Consumptive Levels
- Effects of Implementation of All Recommended WMS through 2070

**Note: Scope/Budget for One Comparison Only. This Scenario is Consistent with Previous Regional Water Plans Comparisons*

DRAFT (1-26-15)

6

Cumulative Effects of the 2016 Plan (Chapter 6)

- Environmental Assessment (With Scoring):
 - Endangered and Threatened Species
 - Water Quality and Aquatic Habitat
 - Vegetation and Terrestrial Habitat
 - Cultural Resources
- Comparison to Previous State Water Plans
- Environmental Benefits and Concerns

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7

Discussion

DRAFT (1-26-15)

8

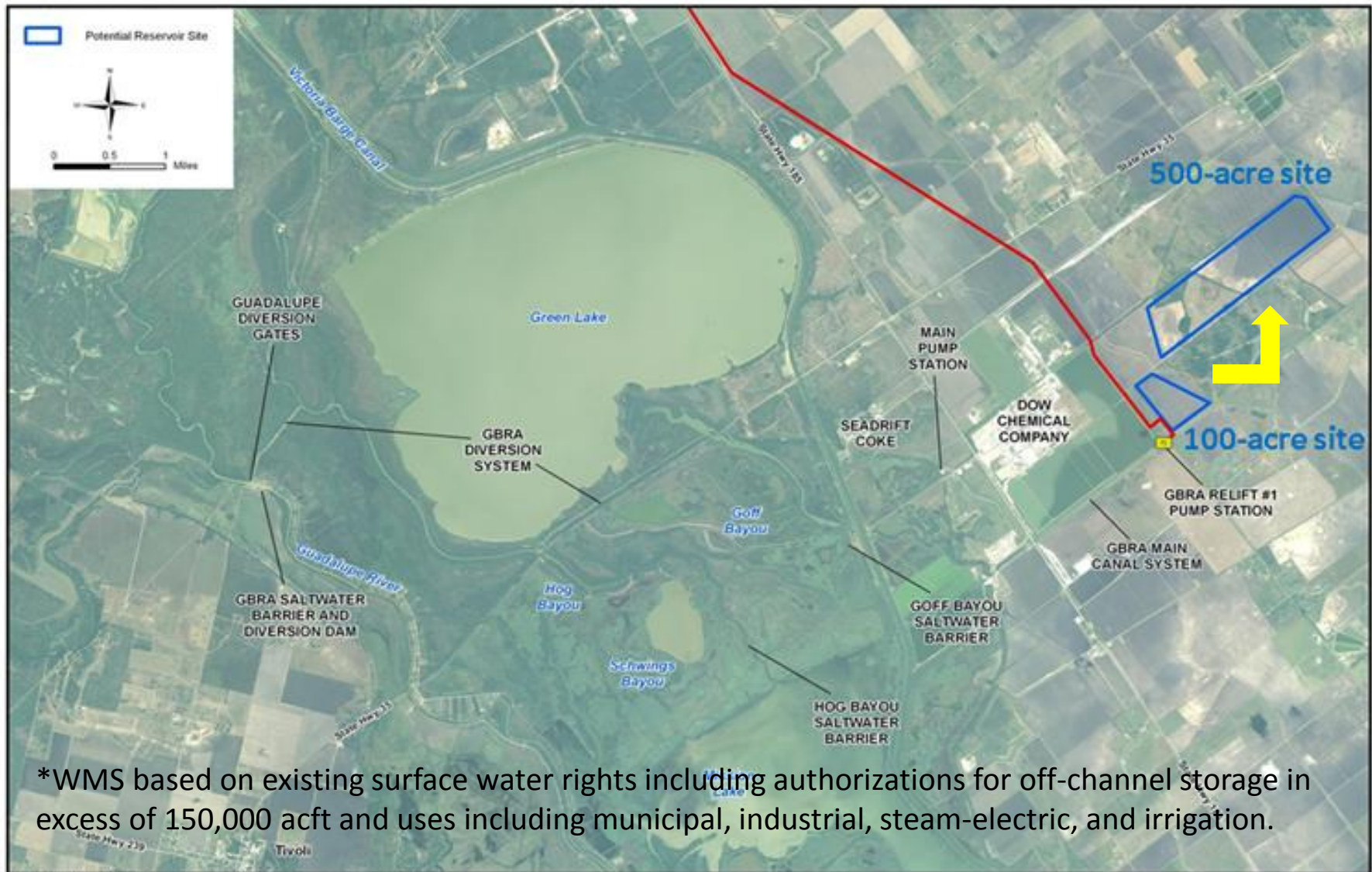
AGENDA ITEM 18

Appropriate Action Regarding the Adoption of Guadalupe-Blanco River Authority's (GBRA) Proposed Substitution of the Lower Basin Storage 500 Acre Site Project for the Lower Basin Storage 100 Acre Site Project in the 2011 Regional Water Plan and Request the Texas Water Development Board (TWDB) to Amend the 2012 State Water Plan

GBRA Lower Basin Storage Requested Amendment of the 2011 Region L Water Plan

- **2011 Region L Water Plan:**
 - Recommended WMS = “100-acre site” w/ capacity of 2,500 acft and yield of 28,369 acft/yr @ \$104/acft/yr for raw water in the reservoir and/or GBRA Main Canal to meet municipal, industrial, steam-electric, and/or other needs
 - Alternative WMS = “500-acre site” w/ capacity of 12,500 acft and yield of 59,569 acft/yr @ \$109/acft/yr for raw water in the reservoir and/or GBRA Main Canal to meet municipal, industrial, steam-electric, and/or other needs
- **Requested Amendment:**
 - Substitution of “500-acre site” as the Recommended WMS as it capable of meeting the same and additional water needs

GBRA Lower Basin Storage*



GBRA Lower Basin Storage Requested Amendment of the 2011 Region L Water Plan

- **August 7, 2014 SCTRWPG Meeting:**
 - After presentation of the proposed amendment and extended discussion, the SCTRWPG voted 25 – 3 (2 absent) in favor of moving forward with requesting pre-adoption determination from the EA of the TWDB, on whether the proposed amendment classifies as a substitution, a minor amendment, or a major amendment.
- **November 6, 2014 SCTRWPG Meetings:**
 - Discussion and appropriate action regarding GBRA's proposed substitution of the Lower Basin Storage 500-acre site project for the Lower Basin Storage 100-acre site project.

AGENDA ITEM 19

Possible Agenda Items for the Next South Central Texas Regional
Water Planning Group Meeting

AGENDA ITEM 20

Public Comment