

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 (SCTRWPG) as established by the Texas Water Development Board will be held on Thursday, May 4, 2023 at 9:30 AM both in person and virtually. The in person meeting will be held at the San Antonio Water System's Customer Service Building, Room CR-145, 2800 US Hwy 281 North, San Antonio, TX 78212. You can attend virtually on WebEx at <https://saws.webex.com/saws/j.php?MTID=md4b8290542f24540c095e666ebccd946>. The planning group members will consider and may take action regarding:

1. (9:30 AM) Roll-Call
2. Public Comment
3. Approval of the Minutes from the Previous Meeting of the South Central Texas Regional Water Planning Group (SCTRWPG)
4. Status Reports and Communications by TWDB
5. Status Reports and Communications Related to Regional Water Planning including reports by the Chair, Regional Liaisons, Groundwater Management Area Representatives, and Members of the Planning Group
6. Presentation by Technical Consultant Regarding:
 - a. Schedule and Progress Updates
 - b. Population and Municipal Water Demand Projections and Supporting Data
7. Discussion and Appropriate Action Regarding Recommendation for Feedback to TWDB on Non-Municipal Water Demands Data
8. Discussion and Appropriate Action Regarding the Establishment of Additional Subcommittees
9. Discussion and Appropriate Action Regarding Filling Existing Vacancies
10. Schedule and Potential Agenda Items for the Next Meeting of the SCTRWPG
11. Public Comment
12. Adjourn

Comments and submissions may be submitted through email to ccastillo@sariverauthority.org. Any written documentation can be sent to Tim Andruss, Chair, South Central Texas Regional Water Planning Group, c/o San Antonio River Authority, Attn: Caye Castillo, 100 E. Guenther Street, San Antonio, TX 78204. Please direct any questions to Caye Castillo at (210) 302-4258.

AGENDA ITEM NO.3 – APPROVAL OF THE MINUTES FROM THE PREVIOUS MEETING OF THE SCTRWPG

**Minutes of the South Central Texas Regional Water Planning Group
February 2, 2023**

Chair Andruss called the hybrid meeting to order at 9:32 a.m., held both in person and through WebEx online platform.

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

Voting Members Present:

Tim Andruss	Robert Puente
Curt Campbell	Humberto Ramos
Debbie Farmer	Adam Yablonski
Steve Graham	Dan Yoxall
Annalysa Camacho for Terrell Graham	Weldon Riggs
Russell Labus	Jonathan Stinson
Glenn Lord	Thomas Taggart
Scooter Mangold	Dianne Wassenich
Travis Pruski	

Voting Members Absent:

John Byrum
Will Conley
Charlie Flatten
Vic Hilderbran
Tom Jungman
Dan Meyer
Vanessa Puig Williams
Darren Simmons
Mitchell Sowards
Ian Taylor
Roland Ruiz
Dianne Savage
Gary Middleton

Non-Voting Members Present:

Elizabeth McCoy, Texas Water Development Board (TWDB)
Marty Kelly, TX Department of Parks and Wildlife
Jami McCool, TX Dept. of Agriculture

Non-Voting Members Absent:

Iliana Delgado, TCEQ
Don McGhee, Region M Liaison
Charles Wiedenfeld, Region J Liaison
Carl Crull, Region N Liaison
Ronald Fieseler, Region K Liaison
Rusty Ray, Texas Soil & Water Cons. Board

Beginning with the February 11, 2016, meeting of the South Central Texas Regional Water Planning Group, all recordings are available for the public at www.regionltexas.org.

AGENDA ITEM NO.1: ROLL CALL

Ms. Caye Castillo took roll call.

AGENDA ITEM NO.2: PUBLIC COMMENT

No public comments.

AGENDA ITEM NO.3: APPROVAL OF THE MINUTES FROM THE PREVIOUS MEETING OF THE SOUTH CENTRAL TEXAS REGIONAL WATER PLANNING GROUP (SCTRWPG)

Mr. Pruski motioned to approve the minutes from the previous meeting. Mr. Stinson seconded, the motion passed.

AGENDA ITEM NO.4: DISCUSSION AND APPROPRIATE ACTION REGARDING FILLING THE VACANCIES FOR THE WATER UTILITIES AND ELECTRIC GENERATING UTILITIES INTEREST GROUPS

Chair Andruss introduced Mr. Andrew Bayle as the nominee for the Electric Generating Utilities interest group. Mr. Bayle introduced himself to the RWPG. Mr. Stinson motioned to seat Mr. Bayle on the Region L Planning Group. Mr. S. Graham seconded the motion, the motion passed.

Chair Andruss introduced Mr. Andrew McBride as the nominee for the Water Utilities interest group. Chair Andruss explained that there were 2 nominees for the Water Utilities vacancy and after full consideration, the Executive Committee agreed to recommend Mr. McBride to fill the Water Utilities interest group vacancy. Mr. Riggs motioned to seat Mr. McBride on the Region L Planning Group. Mr. Stinson seconded the motion, the motion passed.

Mr. McBride introduced himself to the RWPG.

AGENDA ITEM NO.5: ELECTION OF OFFICERS FOR THE 2023 SCTRWPG EXECUTIVE COMMITTEE

Mr. Lord stated he would be stepping down from the Executive Committee. Mr. S. Graham expressed interest in the At-large Executive Committee Officer position to the RWPG.

Mr. Stinson motioned to nominate the current slate of elected officers in their position to include Mr. S. Graham as the new At-large Executive Committee member. Mr. Labus seconded the motion, motion passed.

AGENDA ITEM NO.6: STATUS REPORTS AND COMMUNICATIONS BY TWDB

Ms. McCoy provided an update from TWDB. TWDB sent supporting data for Task 4B (Infeasible WMS and WMSP Analysis) to RWPGs on January 10, 2023. TWDB provided new one-pagers and educational material regarding Water Supply & Flood Mitigation Strategies, Drought of Record, and consistency Waiver that can be found on their website: <http://www.twdb.texas.gov/waterplanning/rwp/education/index.asp>.

The next interregional Planning Council meeting will be on March 9, 2023 in Austin, TX with virtual option to attend.

AGENDA ITEM NO.7: STATUS REPORTS AND COMMUNICATIONS RELATED TO REGIONAL WATER PLANNING INCLUDING REPORTS BY THE CHAIR, REGIONAL LIAISONS, GROUNDWATER MANAGEMENT AREA REPRESENTATIVES AND MEMBERS OF THE PLANNING GROUP

Chair Andruss provided an update on the Interregional Planning Council held on November 9th, 2022.

Mr. Puente introduced the new San Antonio Water System (SAWS) Director of Water Resources.

Mr. Siebert shared that the 13th Annual Central Texas Water Conservation Symposium will be held in San Antonio on February 22, 2023 as well as the Rain to Drain Experience on February 23, 2023 held by SAWS.

Ms. Wassenich provided an update from Region K regarding a project from the City of Liberty Hill asking for a waiver to be considered in the previous plan due to water sources. The waiver was ultimately turned down.

AGENDA ITEM NO.8: PRESENTATION BY THE SAN ANTONIO RIVER AUTHORITY ON THE STATE LEGISLATIVE SESSION

Mr. Mast provided a presentation regarding the 88th State Legislative Session to highlight potential state legislative priorities, bills, and water infrastructure funding. His presentation and the recording of this meeting can be found on the Region L website at <https://www.regionltexas.org/current-planning-effort/6th-cycle-2026-rwp/2023-initial-prepared-plan/>.

Mr. Puente provided details on the Texas Water Foundation and their mission to protect, enhance, educate, and conserve water resources in Texas.

AGENDA ITEM NO.9: PRESENTATION BY TWDB ON POPULATION AND MUNICIPAL DEMAND METHODOLOGIES

Ms. Dahlberg provided the membership with details for RWPGs non-municipal and municipal demand projection deadlines; WUGs; population projections by county; TWDB methodology for population projections; migration scenarios; Region L draft population projections; and TWDB historical GPCDs for RWPGs. Her presentation and the recording of this meeting can be found on the Region L website at <https://www.regionltexas.org/current-planning-effort/6th-cycle-2026-rwp/2023-initial-prepared-plan/>.

Discussion ensued regarding the county migration scenarios, WUG projections, and historical demand projections.

AGENDA ITEM NO.10: PRESENTATION BY TWDB ON THE OVERLAP BETWEEN REGIONAL FLOOD PLANNING AND REGIONAL WATER PLANNING

Mr. Bronikowski presented information regarding the overlap between regional flood planning and regional water planning to the planning group to include state regional water programs, specifically in Region L; similarities between flood planning and water planning; and requirement related to regional water planning. Mr. Bronikowski informed the planning group that Region L overlaps with 3 flood planning regions which include Regions 11, 12, and 13. His presentation and the recording of this meeting can be found on the Region L website at <https://www.regionltexas.org/current-planning-effort/6th-cycle-2026-rwp/2023-initial-prepared-plan/>.

Mr. Andruss asked Mr. Bronikowski to provide an example of a flood mitigation project or strategy in Region L that could contribute to the development of water supplies. Mr. Bronikowski stated that there were no projects in Region L that they identified contributed to water supply in this first round of flood planning.

AGENDA ITEM NO.11: PRESENTATION BY TECHNICAL CONSULTANT FOR SCHEDULE AND PROGRESS UPDATES

Ms. Lauren Gonzalez presented the conceptual schedule for Region L plan development. Her presentation is available online at <https://www.regionltexas.org/current-planning-effort/6th-cycle-2026-rwp/2023-initial-prepared-plan/>.

AGENDA ITEM NO.12: DISCUSSION AND APPROPRIATE ACTION REGARDING RECOMMENDATION FOR FEEDBACK TO TWDB ON NON-MUNICIPAL WATER DEMANDS DATA

Ms. Lauren Gonzalez summarized the non-municipal demands activities since the establishment of the Population & Water Demands Work Group on February 16, 2022. The Population & Water Demands Work Group has been meeting consistently to provide recommendations to the Planning Group for Feedback to TWDB for the non-municipal demands.

Mr. S. Graham motioned to accept the Population & Water Demands Work Group recommendation for feedback to TWDB on Livestock, Manufacturing, Irrigation, and Mining data. Mr. Campbell seconded the motion, motion passed.

Due to new data received, there is pending approval for a recommendation for feedback to TWDB on Steam-Electric.

AGENDA ITEM NO.13: DISCUSSION AND APPROPRIATE ACTION REGARDING THE ESTABLISHMENT OF ADDITIONAL SUBCOMMITTEES

No motion to create an additional subcommittee.

AGENDA ITEM NO.14: SCHEDULE AND POTENTIAL AGENDA ITEMS FOR THE NEXT MEETING OF THE SCTRWPG

The next SCTRWPG meeting is scheduled for May 4, 2023, at 9:30 AM.

AGENDA ITEM NO.15: PUBLIC COMMENT

No public comments.

AGENDA ITEM NO.16: ADJOURN

Mr. Riggs motioned to adjourn this meeting. Mr. Stinson seconded the motion, motion passed. Meeting adjourned at 12:04 p.m.

AGENDA ITEM NO.4 – STATUS REPORTS AND COMMUNICATIONS BY TWDB

Region L TWDB Update May 4, 2023

1. Reminder of Upcoming Critical Deadlines

- **July 14** – Deadline to request revisions to draft non-municipal projections
- **August 11** – Deadline to request revisions to draft population and municipal demand projections
- TWDB staff will present all projections to the Board for adoption **Fall 2023**
- **March 4, 2024** – Deadline to submit Technical Memorandum deliverable

2. Revisions to Plumbing Code Savings Projections

- Revised to adjust aggressive assumption regarding adoption of fixtures
- Affects demands for 2030 and 2040
- TWDB issuing revised municipal demand projections in mid-May

3. Interregional Planning Council

- Previous meetings held November 9, 2022 and March 9, 2023
- Next meeting: May 30 in Austin, TX with virtual option to attend

Region L TWDB Update May 4, 2023

4. Additional Resource Materials Available (Provided 4/5/23)

- Status of 2021 RWPG policy recommendations
- Active RWPG committees
- Liaison materials

5. New One-Pagers and Educational Materials

- Consistency Waivers
 - <http://www.twdb.texas.gov/waterplanning/rwp/education/index.asp>
- Member Guide
- Administrative Guidance
 - <https://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2026/documents.asp>

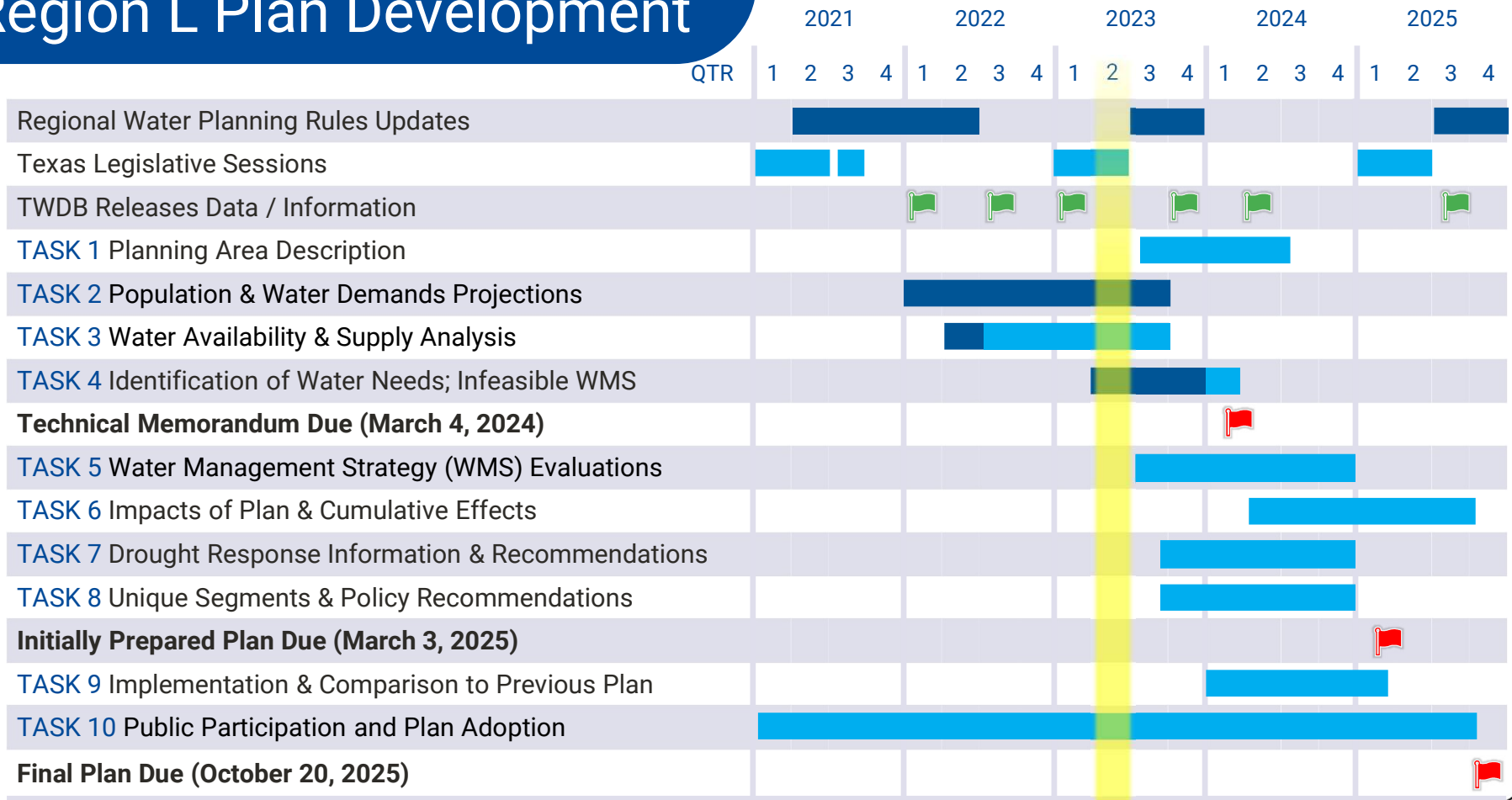
AGENDA ITEM NO.6 – PRESENTATION BY TECHNICAL CONSULTANT REGARDING

A) SCHEDULE AND PROGRESS UPDATES

B) POPULATION AND MUNICIPAL WATER DEMEND PROJECTIONS AND SUPPORTING DATA

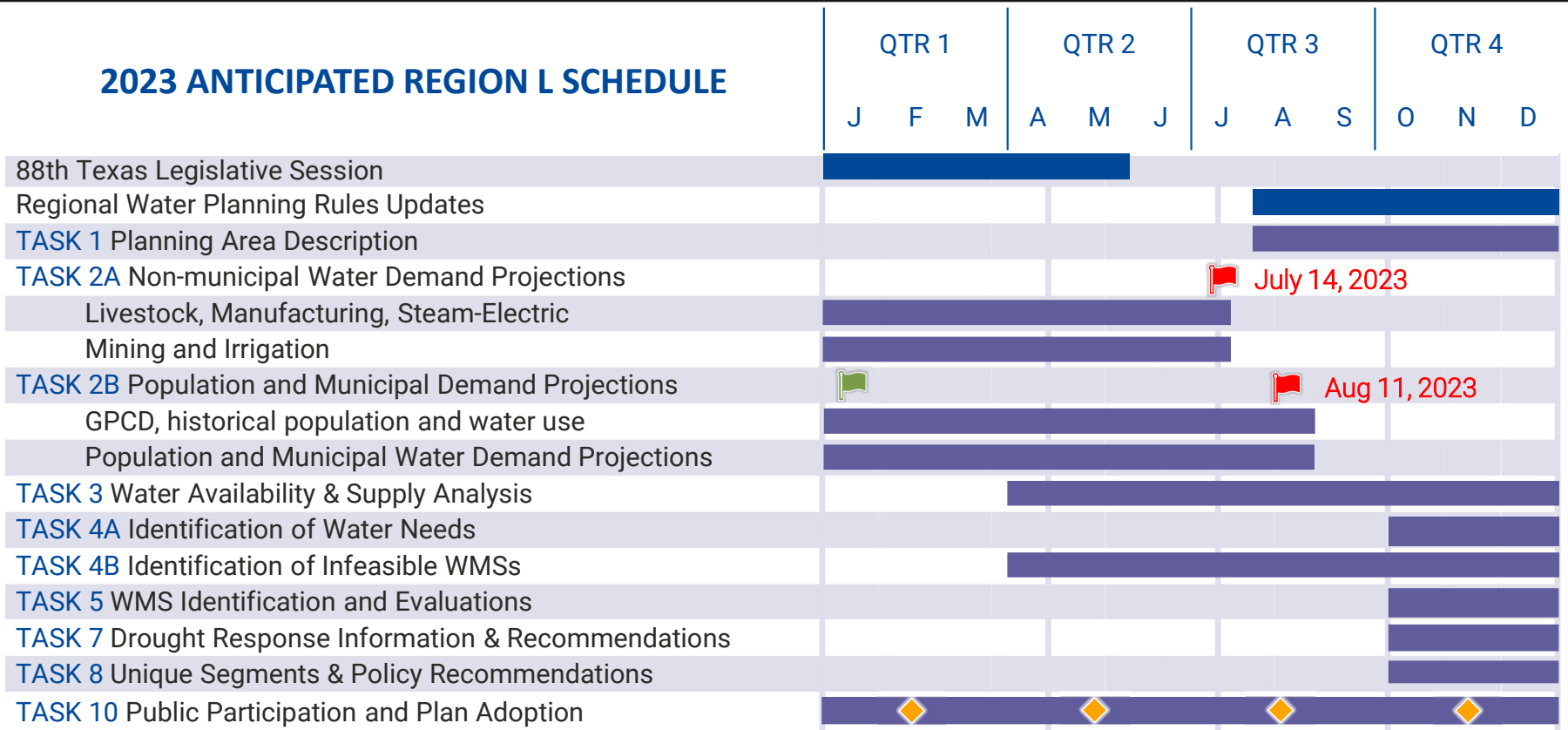
Agenda Item 6.a:
Presentation by Technical
Consultant Regarding Schedule
and Progress Updates

Conceptual Schedule for Region L Plan Development



■ TWDB Conceptual Schedule
 ■ B&V Planned Schedule
 🚩 TWDB Data Release
 🚩 TWDB Deadline

2023 ANTICIPATED REGION L SCHEDULE



LEGEND

■ Other Activities



TWDB Data Release



TWDB Deadline

■ Region L Activities



Region L RWPG Meeting

Texas Water
Development
Board (TWDB)

*2026 DRAFT
Population and
Municipal
Demand
Projections



<https://www.twdb.texas.gov/waterplanning/data/projections/2027/municipal.asp>

Update on Completed Efforts

Outreach:

- Held webinar for Stakeholders to introduce Regional Water Planning and how to provide input during the process.
- Surveyed 136 WUGs to provide feedback for population and water demands data.
 - Received 61 responses from unique WUGs (accounting for 83% of all 2030 regional water demand)
 - 30 respondents requested to revise their projections

Population & Water Demands Workgroup

- Reviewed updated information on Steam-Electric Demands and Manufacturing Demands
- Prepared recommendation to Region L Regional Water Planning Group (RWPG) for today's meeting

Update on Ongoing Efforts

- **Continuing Outreach:**
 - Coordinating WUG survey responses and gathering data from WUGs
- **Continuing Population & Water Demands Workgroup Activities:**
 - Will meet with PWD Workgroup in May, June, July, as needed to address population and municipal demand revisions
- **Beginning Interregional Coordination Efforts**
 - Regular calls with Region K consultant team
 - Connecting with Regions G, N, and P, as needed
- **Beginning review of 2021 Plan WMS to determine if any may be infeasible**
 - Will reach out to WUGs/Project Sponsors with questions

Update on Ongoing Efforts

- Infeasible WMS Definition:
 - “...a water management strategy or project is considered infeasible if the proposed sponsor of the water management strategy or project has not taken an affirmative vote or other action to make expenditures necessary to construct or file applications for permits required in connection with the implementation of the water management strategy or project under federal or state law on a schedule that is consistent with the completion of the implementation of the water management strategy or project by the time the water management strategy or project is projected by the regional water plan or the state water plan to be needed.”
- The infeasibility review is **not** required for strategies or projects that do not require a permit or involve construction. Regions should focus their efforts and resources for this task primarily on reviewing strategies and projects in the 2021 regional plans that that require a permit and/or involve construction and that
 - are shown to be online by the 2020 (in this case no later than January 5, 2023) or 2030 decade,
 - are related to new major reservoirs, seawater desalination, direct potable reuse, brackish groundwater, aquifer storage and recovery, and out of state water transfers (see data spreadsheets provided to RWPGs on 1/10/23) and shown to be online in the nearer-term planning decades (i.e., 2020, 2030), or
 - that will generally require significant resources and require significant time to implement.

Agenda Item 6.b:
Presentation by Technical
Consultant Regarding Population
and Municipal Water Demand
Projections and Supporting Data

Summary of New or Changed Municipal WUGs for This Cycle

2021 Plan	2026 Plan	County	TWDB Revision	Approval by RWPG
PORT OCONNOR MUD	PORT OCONNOR IMPROVEMENT DISTRICT	CALHOUN	Name Change	Agree
CRYSTAL CLEAR WSC	CRYSTAL CLEAR SUD	COMAL/ GUADALUPE/ HAYS	Name Change	Agree
N/A	3009 WATER	COMAL	New WUG	Agree
N/A	C WILLOW WATER	WILSON	New WUG	Agree
N/A	CONCAN WSC	UVALDE	New WUG	Agree
N/A	THREE OAKS WSC	WILSON	New WUG	Agree
N/A	VILLE DALSACE WATER SUPPLY	MEDINA	New WUG	Agree
N/A	RANCHO DEL LAGO	BLANCO	New WUG	Request Removal
MAXWELL WSC	MAXWELL SUD	CALDWELL	N/A	Request Name Change

Summary of TWDB Data Releases to Date

Type	Deadline for RWPG to Review and Submit Revisions to TWDB
Water User Group (WUG) List	July 29, 2022
Non- Municipal Water Demand Projections: Livestock, Manufacturing, Steam-Electric, Irrigation, and Mining	July 14, 2023
Historical WUG data and Draft Baseline GPCD	August 11, 2023
Population and Municipal Water Demand Projections	August 11, 2023

Draft Population and Municipal Water Demand Projections



TWDB provides the RWPGs with Draft Population and Municipal Water Demand Projections they develop from the State Demographer's Data.



The RWPGs are tasked with reviewing the draft projections and providing any requested revisions back to TWDB before August 11, 2023.



The RWPGs will send draft projections to the utilities (municipal WUGs) to obtain feedback prior to the deadline.

*TWDB requires specific documentation to support a change. (see handout)
Regional population totals are generally not allowed to change.*

Draft Population and Municipal Water Demand Projections

*TWDB will revise Plumbing Code Savings/Municipal Demands by Mid-May



TWDB provides the RWPGs with Draft Population and Municipal Water Demand Projections they develop from the State Demographer's Data.

The draft projections include:

- WUG and county-level population projections based on the Texas Demographic Center (TDC) full (1.0) migration scenario;
- County-level population projections based on the half (0.5) migration scenario;
- Baseline Gallons Per Capita Per Day (GPCD);
- Plumbing code savings projections*; and
- Municipal demand projections.



<https://www.twdb.texas.gov/waterplanning/data/projections/2027/municipal.asp>

Draft Population and Municipal Water Demand Projections



Some key points on these projections include:

- 2026 draft projections are derived from the 2020 U.S. Census.
- Texas Demographic Center (TDC) developed **county-level projections** using **migration rates between the 2010 and 2020 Census** to project future growth.
- Texas Water Development Board (TWDB) developed **WUG-level population** and water demand projections using the **1.0 migration scenario**.
- For the 2026 Regional Water Plans (RWPs), draft county population projections being provided to the RWPGs **followed the trends**, without adjustment, as projected by the TDC, **including population declines**.

Region L County Populations by Scenario

Region	County	1.0 migration scenario (WUGs projected using this scenario)						0.5 migration scenario					
		2030	2040	2050	2060	2070	2080	2030	2040	2050	2060	2070	2080
L	ATASCOSA	53,324	57,374	61,473	64,960	68,952	73,522	51,727	54,132	56,203	57,491	58,854	60,296
L	BEXAR	2,302,829	2,599,727	2,865,834	3,102,720	3,373,931	3,684,440	2,211,656	2,387,174	2,524,414	2,630,194	2,742,102	2,860,493
L	CALDWELL	53,749	61,689	69,133	76,291	84,486	93,868	50,343	54,283	57,303	59,889	62,625	65,520
L	CALHOUN	18,515	16,791	14,926	13,162	11,142	8,829	19,449	18,619	17,599	16,571	15,483	14,332
L	COMAL	226,709	315,640	434,242	584,380	756,273	953,073	190,748	222,521	256,086	290,856	327,640	366,555
L	DEWITT	19,717	19,552	19,234	18,759	18,215	17,592	19,716	19,687	19,565	19,482	19,394	19,301
L	DIMITT	7,341	6,303	5,340	4,484	3,504	2,382	8,175	7,818	7,383	6,983	6,560	6,112
L	FRIIO	19,512	20,540	21,269	21,643	22,071	22,561	19,446	20,379	21,083	21,592	22,130	22,699
L	GOLIAD	6,803	6,648	6,559	6,454	6,334	6,197	6,769	6,592	6,394	6,264	6,126	5,980
L	GONZALES	19,204	18,674	17,796	16,865	15,799	14,579	19,716	19,697	19,399	19,064	18,710	18,335
L	GUADALUPE	216,582	268,305	326,154	387,211	457,115	537,148	195,808	219,232	241,021	259,920	279,914	301,066
L	HAYS	260,714	376,095	528,035	734,262	970,372	1,240,694	221,648	271,336	322,357	379,538	440,032	504,031
L	KARNES	15,357	16,052	16,739	17,527	18,429	19,462	15,206	15,722	16,182	16,751	17,353	17,990
L	KENDALL	56,306	70,896	89,665	111,448	136,387	164,940	49,191	54,496	60,143	65,422	71,007	76,916
L	LA SALLE	6,645	6,586	6,319	5,926	5,476	4,961	6,723	6,766	6,690	6,529	6,359	6,179
L	MEDINA	54,536	57,772	60,148	61,719	63,518	65,578	52,700	54,147	54,761	54,852	54,948	55,050
L	REFUGIO	6,283	5,820	5,352	4,897	4,376	3,780	6,489	6,243	5,992	5,799	5,595	5,379
L	UVALDE	22,571	20,698	18,741	16,822	14,625	12,110	24,095	23,623	22,929	22,142	21,309	20,428
L	VICTORIA	93,954	96,082	96,608	96,168	95,664	95,087	93,984	95,975	96,635	96,664	96,695	96,728
L	WILSON	55,858	61,941	67,968	73,304	79,413	86,407	52,712	55,297	57,252	58,451	59,719	61,060
L	ZAVALA	8,595	7,590	6,649	5,747	4,714	3,531	9,480	9,232	8,858	8,472	8,064	7,632
Region L Total		3,525,104	4,110,775	4,738,184	5,424,749	6,210,796	7,110,741	3,325,781	3,622,971	3,878,249	4,102,926	4,340,619	4,592,082

0.5 scenario is higher than 1.0

Revision Process

- Sent surveys to municipal WUGs in early March
 - Sent reminders March 22, April 4, and April 28
- Met with Population and Water Demand Workgroup on March 29
 - Heard presentation from TWDB on **Plumbing Code Savings**
 - Decided to wait to hear from WUGs before determining migration scenario
- Following up with WUGs that indicated they want to make changes
- Will identify changes and supporting documentation available before bringing back to PWD for recommendation to RWPG



TWDB
email
4/20/23

"...we have identified an error in the draft estimated savings calculations currently with planning groups for review. It appears that a significant share of passive plumbing code savings that may already have been achieved was inadvertently included in 2030 and 2040 estimates, in addition to overstating the amount of future savings gained by the continued adoption of new appliances and fixtures."

Schedule



- Surveys asked for a response by April 7, 2023
 - After April 7, we no longer sent out regular reminders, but accepted survey responses through May 1st
- For those that responded by April 7 and requested revisions:
 - Sent a follow-up email asking for their specific projections request and supporting documentation by April 28, 2023
- Will spend May, June, and July coordinating with the WUGs and PWD Workgroup (and TWDB staff, as needed) to develop recommended revisions to bring to the RWPG in early August
 - Planning a May PWD Workgroup meeting

WUG Responses

Next Population & Water Demand Workgroup meeting to occur in May to discuss requested revisions.

WUG requested revisions (30)

- Canyon Lake Water Service
- Castroville
- Cibolo
- Concan WSC
- Cotulla
- County Line SUD
- Cuero
- East Central SUD
- Elmendorf
- Fair Oaks Ranch
- Garden Ridge
- GBRA
- Hondo
- Kendall County WCID 1
- Kyle
- La Vernia
- Leon Valley
- Live Oak Water System
- Lockhart
- Martindale WSC
- Maxwell SUD
- Pleasanton
- Port Lavaca
- San Marcos
- SAWS
- Seguin
- Shavano Park
- SS WSC
- Texas State University
- Uvalde

After further consideration, no revisions requested by WUG (5)

WUG indicated TWDB-provided projections appear reasonable (26)

- 3009 Water Company
- Aqua WSC
- Bexar County WCID 10
- Converse
- El Oso WSC
- EMCSUD
- Falls City
- Gonzales
- Gonzales County WSC
- Green Valley Special Utility District
- Karnes County-Other
- La Coste
- McCoy Water Corp
- Boerne
- Moore WSC
- New Braunfels Utilities
- Natalia
- Poteet
- Schertz
- Smiley
- Stockdale
- Sunko WSC
- The Oaks WSC
- Tri-Community Water
- Universal City
- Ville D 'Alsace Water Supply
- Windmill WSC
- Wingert Water Systems
- Yoakum
- Selma
- Victoria

**AGENDA ITEM NO.7 – DISCUSSION AND APPROPRIATE ACTION REGARDING RECOMMENDATION
FOR FEEDBACK TO TWDB ON NON-MUNICIPAL WATER DEMANDS DATA**

Agenda Item 7:
Discussion and Appropriate Action
Regarding Recommendation for
Feedback to TWDB on Non-Municipal
Water Demands Data

Population and Water Demands (PWD) Workgroup: Summary of Non-Municipal Demands Review Activities



New information received for Steam-Electric in Bexar and Guadalupe Counties after January 19th PWD Workgroup Meeting

New information received for Manufacturing in Guadalupe County in mid-April

POPULATION AND WATER
DEMANDS WORKGROUP
RECOMMENDATION:
Steam-Electric Demands

Steam-Electric Revisions

Bexar County

- CPS Energy discovered their reported water use survey numbers were too high for 2015-2020
 - Resulting highest use in last 10 years is in 2011 – 52,293 AFY
 - Request to use 52,293 AFY as the projected demand for 2030-2080

Guadalupe County

- Amendment request last cycle to revise steam-electric demands in Guadalupe County from 7,070 AFY to 9,405 AFY (increase of 2,335 AFY)
- Two facilities in Guadalupe County – CPS Energy and Calpine (no revisions requested by Calpine)
- CPS Energy requesting approximately 5,500 AFY for their Rio Nogales facility, based on a study by HDR, similar to last cycle, increasing demand to 9,405 AFY

Recommendation for Additional Feedback to TWDB Regarding Steam-Electric Water Demand Projections

Steam-Electric Demand	PWD Workgroup Recommendations for Revisions
Bexar County	Decrease draft projections from 76,539 AFY to reflect 2011 highest water use of 52,293 AFY across all decades.
Guadalupe County	Revise draft projections to increase demand from 7,008 AFY to 9,405 AFY across all decades, same as last cycle.

POPULATION AND WATER
DEMANDS WORKGROUP
RECOMMENDATION:
Manufacturing Demands

Manufacturing Revisions

Guadalupe County

- Seguin discovered that the Niagara Bottling Company reported water use survey numbers were too low for 2018-2019
 - Resulting new highest use for county in 2018 – 3,200 AFY
 - Includes previously subtracted OJR Reclamation Plant approved at 2/2/23 Region L Mtg
- Recommendation for adjustment by PWD Workgroup:
 - Increase 2026 Draft Water Demand Projections for Guadalupe County to subtract OJR Reclamation and add Niagara water use, as follows:

Adjusted Demand Projections – Guadalupe County Manufacturing (ac-ft/yr)					
2030	2040	2050	2060	2070	2080
3,526	3,656	3,792	3,932	4,078	4,229

Recommendation for Additional Feedback to TWDB Regarding Manufacturing Water Demand Projections

Manufacturing Demand	PWD Workgroup Recommendations for Revisions					
Guadalupe County	Increase draft projections to subtract OJR Reclamation and add Niagara					
	<u>Adjusted Demand Projections – Guadalupe County Manufacturing (ac-ft/yr)</u>					
	<u>2030</u>	<u>2040</u>	<u>2050</u>	<u>2060</u>	<u>2070</u>	<u>2080</u>
	3,526	3,656	3,792	3,932	4,078	4,229

Summary of Recommendation for Additional Feedback to TWDB Regarding Non-Municipal Water Demand Projections

Steam-Electric Demand	PWD Workgroup Recommendations for Revisions
Bexar County	Decrease projections from 76,539 AFY to reflect 2011 highest water use of 52,293 AFY across all decades.
Guadalupe County	Revise projections to increase demand from 7,008 AFY to 9,405 AFY across all decades, same as last cycle.

Manufacturing Demand	PWD Workgroup Recommendations for Revisions												
Guadalupe County	Increase projections to subtract OJR Reclamation and add Niagara												
Adjusted Demand Projections – Guadalupe County Manufacturing (ac-ft/yr)													
	<table border="1"> <thead> <tr> <th>2030</th> <th>2040</th> <th>2050</th> <th>2060</th> <th>2070</th> <th>2080</th> </tr> </thead> <tbody> <tr> <td>3,526</td> <td>3,656</td> <td>3,792</td> <td>3,932</td> <td>4,078</td> <td>4,229</td> </tr> </tbody> </table>	2030	2040	2050	2060	2070	2080	3,526	3,656	3,792	3,932	4,078	4,229
2030	2040	2050	2060	2070	2080								
3,526	3,656	3,792	3,932	4,078	4,229								

Discussion

2.2.1.4 WUG (entity) population projections

The projected population growth throughout the planning period for the utilities and rural area (county-other) within a county is a function of a number of factors, including the WUG's estimated share of the county's population or growth between 2010 and 2020, as well as local information provided by RWPGs. The total county population will serve as a control total for the WUG populations within each county. Any adjustments to a sub-county WUG population projection must involve a justifiable redistribution of projected populations within the relevant county so that the county net total remains unchanged unless an adjustment to the county total is also requested, justified and approved (see Section 2.2.1.3).

Criteria for adjustment:

One or more of the following criteria must be verified by the RWPG and the Executive Administrator for consideration in adjusting individual WUG population projections:

1. An adjustment to the population estimates for utilities or rural areas due to official adjustment to the 2020 Census population.
2. The 2010 or 2020 permanent population-served estimate by a municipal WUG is significantly different than the 2010 or 2020 baseline population estimate used in the draft projections.
3. The population growth rate for a municipal WUG over the most recent years (2015–2020) is substantially different than the growth rate between 2010 and 2020 in the draft projections.
4. Identification of growth limitations or potential build-out conditions for a WUG that would result in an expected maximum population that is different than the draft projections.
5. Updated information regarding the utility or public water system service area or anticipated near-term changes in service area.
6. Plans for new residential development in the near future that has not been counted in the draft projections.
7. Evidence of errors identified in historical connections.
8. Plans for a new or expansion of an existing institutional facility that was not included in the draft projections.
9. Evidence of errors in group quarter population.

Data requirements:

The RWPG must provide the following data to the Executive Administrator associated with the identified criteria for justifying any adjustment to the WUG-level population projections:

1. The verified number of residential connections or permanent population of utilities or public water systems that are associated with a WUG and result in correcting the TWDB's Water Use Survey or historical estimates.
2. Updates or corrections to a WUG's group quarter population or the location of institutional facilities.
3. Population estimates for cities developed and published by the Texas Demographic Center or by a regional Council of Governments will be considered for utilities serving these respective cities.
4. Documentation from an official of a city or utility that describes the conditions expected to limit population growth and estimates the maximum expected population for a utility and the potential timeframe for buildout.
5. Documentation or maps that verify and display changes in the utility service area.
6. Documentation demonstrating near-term growth, expansion, or new construction such as platting of new subdivisions, annexation agreements, building permits or impact fee reports.

7. Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size.
8. Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection.

2.2.2 Water demand projections

2.2.2.1 Municipal water demand projections

Municipal water use includes both residential and non-residential water use. Residential use includes single and multi-family residential household water use. Non-residential use includes water used by commercial establishments, public offices, institutions, and light industrial facilities, but does not include significant industrial water users, such as large manufacturing, mining, or power generation facilities. Residential and non-residential water uses are categorized together because they are similar types of use, both use water primarily for drinking, cleaning, sanitation, cooling, and landscape watering.

Per capita water use is developed as gallons per capita daily (GPCD) using historical population estimates and net use for the utility. The reported data included in the municipal draft projections includes surface water, groundwater, and direct and indirect potable reuse, but does not include non-potable reuse sources.

The TWDB-generated draft municipal water demand projections must incorporate limited, anticipated future water savings **due only to the transition to more water-efficient plumbing fixtures and appliances, as detailed in relevant legislation and provided to the RWPGs by the TWDB**. Any additional anticipated future water savings due to conservation programs undertaken by utilities or county-other WUGs must be quantified and considered as a potential, recommended water management strategy by the RWPG.

Dry-year and baseline GPCD

Municipal water demand projections will be based upon dry-year demand conditions. The baseline GPCDs used in the 2026 RWPs will be carried over from the 2021 RWPs and used as default baseline GPCDs **with water efficiency savings due to more efficient plumbing fixtures and appliances through 2020 subtracted** to develop the draft water demand projections for municipal WUGs in the 2026 RWPs.

Regions may make a request to use a WUG's GPCD value from a different base dry-year within the most recent five years (2015-2019) as the basis for the demand projections of that WUG. The TWDB will consider an alternative base dry-year GPCD if the RWPG provides sufficient evidence that the alternative base dry-year GPCD is more representative of demands expected under dry-year conditions or that the draft default GPCD fails to adequately reflect water efficiency and conservation savings that have already been implemented.

Note that any adjustment to the population projections for a WUG will require an associated adjustment to the municipal water demand projections.

Criteria for adjustment:

One or more of the following criteria must be verified by the RWPG and the Executive Administrator for consideration of revising the municipal water demand projections:

1. Evidence that per capita water use from a more recent year (2015-2019) would be more appropriate as the baseline because that year was more representative of dry-year conditions.
2. Evidence of errors identified in the historical water use or GPCD for a utility or public water system, including evidence that volumes of reuse (potable reuse) water used for municipal purposes should be or should not be included in the draft projections.
3. Evidence that the base dry-year water use was abnormal due to temporary infrastructure constraints or water restriction triggered by utility's drought management plan.
4. Trends indicating that per capita water use for a utility or rural area of a county have increased substantially in recent years, and evidence that these trends will continue to rise in the short-term future due to commercial development.
5. Evidence that the most recent water efficiency and conservation savings that have already been implemented are not reflected in the default baseline GPCD.
6. Evidence that the number of installations of water-efficient fixtures and appliances between 2010 and 2020 is substantially different than the TWDB estimate or evidence that the projected replacement rate of water-efficient fixtures and appliances is substantially different than the TWDB projections.
7. Evidence that future water efficiency savings are projected much higher than the draft projections due to a utility's conservation plans that accelerate the replacement of the existing outdated plumbing fixtures and appliances.

Data requirements:

The RWPG must provide the following data to the Executive Administrator associated with the identified criteria for justifying any adjustments to the municipal water demand projections:

1. Annual municipal water intake (total surface water diversions and/or groundwater pumpage and water purchased from other entities) for a utility measured in acre-feet.
2. The volume of water sales by a utility to other water users (utilities, industries, public water systems, etc.) measured in acre-feet.
3. Net annual municipal water use, defined as total water production less sales to other water users (utilities, industries, public water systems, etc.) measured in acre-feet.
4. Documentation of temporary infrastructure, drought restrictions, or other water supply constraints that were in place.
5. Drought index or seasonal rainfall data to document a year different than the designated dry-year as a more appropriate base year for projections.
6. Conservation plans or other documentation that show the number or rate of water-efficient fixtures replaced or planned to be replaced for the future.
7. Estimated water efficiency or conservation savings implemented.

8. To verify increasing or decreasing per capita water use trends for a utility or rural area of a county and therefore revising projections of per capita water use to reflect the trend, the following data should be provided with the request from the RWPG:
 - a. Historical per capita water use estimates based on net annual municipal water use for a utility or rural area of a county, beginning in 2015.
 - b. A trend analysis which takes into account the variation in annual rainfall.
 - c. Revised projections of per capita water use for a utility or rural area of a county, that demonstrate an increasing or decreasing trend of per capita water use.
 - d. Growth data in the residential, commercial and/or public sectors that would justify an increase or decrease in per capita water use.
 - e. Convincing documentation of planned future growth that would result in higher per capita water use.
9. Other data and evidence that the RWPG considers reasonable and adequate to justify an adjustment to the municipal water demand projections.