

LAVACA REGIONAL PLANNING GROUP



**APPLICATION TO THE
TEXAS WATER DEVELOPMENT BOARD REQUESTING
GRANT FUNDING TO COMPLETE THE FIFTH CYCLE
OF REGIONAL WATER PLANNING
FEBRUARY 2017**

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of agriculture. Therefore, the burden of exploring the development of water supplies to meet future needs falls upon agricultural producers that are unable to develop the significant amounts of capital required for matching shares to fund a conventional matching grant application.

In view of the above, the Lavaca Regional Water Planning Group is requesting that 100 percent of the technical work be funded for this study in the same manner in which the technical work was funded in previous studies.

- 13. Identify potential sources and amounts of funding available for implementation of viable solutions resulting from proposed planning.

Potential funding sources include Natural Resource Conservation Service matching funds for conservation improvements and the Texas Water Development Board loan fund. In addition, the contracting entity, Lavaca-Navidad River Authority, would consider matching funds with the TWDB for the supplemental work items if any are identified.

II. PLANNING INFORMATION

- 14. A detailed scope of work for proposed planning.

The major scope items proposed for this planning process are listed below. Please see **Appendix A** for a detailed description of these tasks.

- 15. A task budget for detailed scope of work by task.

Please see **Appendix B**.

- 16. An expense budget for detailed scope of work by expense category.

Please see **Appendix C**.

- 17. A time schedule for completing detailed Scope of Work by task.

Please see **Appendix D**.

- 18. Specific deliverables for each task in Scope of Work.

Deliverables for the scope items are presented with each scope item in **Appendix A**.

- 19. Method of monitoring study progress.

Progress reports to the TWDB, Regional Planning Group, and Lavaca-Navidad River Authority.

- 20. Qualifications and direct experience of proposed project staff.

The Lavaca-Navidad River Authority has conducted an RFQ process to identify and contract with a qualified consultant for conducting the described planning efforts. Qualifications of Lavaca-Navidad River Authority staff can be found in **Appendix E**.

III. WRITTEN ASSURANCES

Written assurance of the following items:

- Proposed planning does not duplicate existing projects;

The proposed planning does not duplicate existing projects.

- Implementation of viable solutions identified through the proposed planning will be diligently pursued and identification of potential sources of funding for implementation of viable solutions;

Advancement of projects identified in the regional plan and pursuit of funds for projects in the Lavaca Region will be done on an individual basis and will depend on the ability of the project

sponsor to gain access to financing deemed advantageous to the potential water customer. The completion of the proposed scope items will allow a better definition of users who would benefit from such projects and where funding may be secured for implementing the recommended strategies.

IV. PROOF OF NOTIFICATION

- Proof of notification. The notice of intent to apply for Regional Water Planning funds should be posted by the RWPG's Political Subdivision **at least 30 days prior to TWDB Board consideration of funding applications** (estimated TWDB Board meeting date of April 6, 2017). Prior to TWDB Board action, in accordance with 31 TAC 357.21(e)(3), 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.

The notification must meet the following requirements as set forth in 31 TAC 357.21(e)(2) and 31 TAC 357.21(e)(4), and 375.21(e)(5)::

1. publishing notice in a newspaper of general circulation in each county located in whole or in part in the regional water planning area (RWPA);
2. mailing notice to each mayor of a municipality, located in whole or in part of the RWPA, with a population of 1,000 or more or which is a county seat; each county judge of a county located in whole or in part in the RWPA; each special or general law district or river authority with responsibility to manage or supply water in the RWPA based upon lists of such water districts and river authorities obtained from Texas Commission on Environmental Quality; all other RWPGs in the state; and
3. Posting notice on the website of the RWPG or host Political Subdivision.

The notice must include the following:

- Name and address of applicant and applicant's official representative;
- Brief description of the regional water planning area;
- Purpose of the proposed planning;
- Texas Water Development Board Executive Administrator's name (Jeff Walker) and address (P.O. Box 13231, Austin, Texas 78711);
- Name and address of contact person at Texas Water Development Board (David Carter, P.O. Box 13231, Austin, Texas 78711);
- A statement that any comments must be filed with the applicant and the Texas Water Development Board's Executive Administrator within 30 days of the date on which the notice was mailed or published.
- The Lavaca-Navidad River Authority has complied with this requirement. Copies of the notices can be found in **Appendix F**.

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APPENDIX A
PRIORITIZED SCOPE OF WORK

Exhibit A
Fifth Cycle of Regional Water Planning
First Amended Scope of Work

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Task 1- Planning Area Description¹

The objective of this task is to prepare a standalone chapter² to be included in the 2021 Regional Water Plan (RWP) that describes the Regional Water Planning Area (RWPA).

Work shall include but not be limited to the following:

- a) In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.30, including the new requirement of describing major water providers in the RWPA.³
- b) Review and summary of relevant existing planning documents in the region including those that have been developed since adoption of the previous RWP. Documents to be summarized include those referenced under 31 TAC §357.22.
- c) Incorporation of all required Texas Water Development Board (TWDB) Regional Water Planning Application/State Water Planning Database (DB22) reports into document. Note that all DB22 reports are required to be physically located immediately following the RWP Executive Summary. However, RWPGs may include these reports elsewhere in the document as they deem appropriate.
- d) Review of the chapter document by RWPG members.
- e) Modifications to the chapter document based on RWPG, public, and/or agency comments.
- f) Submittal of chapter document to TWDB for review and approval; and
- g) All effort required to obtain final approval of the RWP chapter by TWDB.

Deliverables: A completed Chapter 1 describing the RWPA shall be delivered in the 2021 RWP as a work product.

Task 2A - Non-Population Related Water Demand Projections⁴

TWDB staff will provide draft water demand projections for 2020-2070 for all water demands unrelated to population (e.g. mining, manufacturing, irrigation, steam-electric power, and livestock) based on the projections from the 2017 State Water Plan updated in some cases based on updated methodologies or the most recent TWDB historical water use estimates.

¹ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

² This shall be a separate chapter as required by 31 TAC §357.22(b).

³ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

⁴ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

TWDB staff will update water demand projections for all associated Water User Groups (WUGs) and provide draft estimates to RWPGs for their review and input.

Each RWPG will then review the draft projections and may provide input to TWDB or request specific changes to the projections from TWDB.⁵ The emphasis of this effort will be on identifying appropriate modifications based on relevant changed conditions that have occurred since the development of the projections used in the 2017 State Water Plan.

If adequate justification is provided by the RWPG to TWDB, water demand projections may be adjusted by the TWDB in consultation with TDA, TCEQ, and TPWD. Once RWPG input and requested changes are considered, final water demand projections will be adopted by the TWDB's governing Board (Board). The adopted projections will then be provided to each RWPG. RWPGs must use the Board-adopted projections when preparing their regional water plans.

TWDB will directly populate DB22 with all WUG-level projections and make related changes to DB22 based on Board-adopted projections.

This Task includes, but is not limited to, performing all work in accordance with TWDB rules and guidance required to:

- a) In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.31.⁶
- b) Prepare a stand-alone chapter⁷ (including work from both Tasks 2A & 2B) to be included in the 2021 RWP that also incorporates all required TWDB DB22 reports into the document.
- c) Receive and make publicly available the draft water demand projections provided by TWDB.
- d) Evaluate draft water demand projections provided by TWDB.
- e) Review comments received from local entities and the public for compliance with TWDB requirements.
- f) Provide detailed feedback to TWDB on water demand projections, as necessary, including justification and documentation supporting suggested changes with a focus on relevant changed conditions that have occurred since the development of the projections used in the 2017 State Water Plan
- g) Prepare and submit numerical requests for revisions, in tabular format in accordance with TWDB guidance, of draft water demand projections and process such requests based on, for example, requests from local entities within the region. The RWPG and/or local entities should provide required documentation and justification of requested revisions.

⁵ All requests to adjust draft population or water demand projections must be submitted along with associated data in an electronic format determined by TWDB (e.g., fixed format spreadsheets)

⁶ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

⁷ This shall be a separate chapter as required by 31 TAC §357.22(b).

- h) Communicate and/or meet with TWDB staff and/or local entities requesting revisions, as necessary.
- i) Assist TWDB, as necessary, in resolving final allocations of water demands to water user groups to conform with any control totals defined by TWDB, for example, by county and/or region.
- j) Prepare water demand projection summaries for WUGs using final, Board-adopted projections to be provided by the TWDB, as necessary.
- k) Modify any associated water demand projections for Major Water Providers (MWP), as necessary based on final, Board-adopted projections.
- l) Review the *TWDB DB22 Non-Population Related⁸ Water Demand* report from the DB22 and incorporate this planning database report into any Technical Memoranda, Initially Prepared Plan (IPP), and adopted RWP (labeled as such and with source reference).
- m) Modify any aggregated water demand summaries, for example, for MWPs or irrigation districts, accordingly incorporate this planning database report into any Technical Memoranda, IPP, and adopted RWP (labeled as such and with source reference).
- n) Update WWP contractual obligations to supply water to other entities and report this information along with projected demands including within the DB22 and within any planning memorandums or reports, as appropriate.

Task 2B - Population and Population-Related Water Demand Projections⁹

TWDB staff will prepare draft population and associated water demand projections for 2020-2070 for all population-related water user groups using data based on the population projections in the 2017 State Water Plan as reassembled by utility service areas.

TWDB staff will develop population projections and associated water demand projections for all WUGs based on utility service areas and provide them to RWPGs for their review and input.

Because there won't be new U.S. Census data available in time to incorporate into the 2021 RWPs, the emphasis of this work will be on the transition of the 2017 State Water Plan population projections and the associated water demand projections from political boundaries to utility service area boundaries and to making limited modifications based on relevant changed conditions that have occurred since the development of the projections used in the 2017 State Water Plan.

RWPGs shall then review the draft projections and may provide input to TWDB or request specific changes to the projections from TWDB. If adequate justification is provided by the RWPGs to TWDB, population and/or water demand projections may be adjusted by the TWDB in consultation with TDA, TCEQ, and TPWD. Once RWPG input and requested changes are considered, final

⁸ All 'TWDB DB22...' reports will be provided by TWDB through the online planning database web interface as a customizable report that can be downloaded by RWPGs and must be included as part of any Technical Memoranda and water plan.

⁹ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

population and associated water demand projections will be adopted by the Board. The adopted projections, based on utility service areas, will then be provided to RWPGs. RWPGs must use the Board-adopted projections when preparing their regional water plans and identify WUGs with associated utility service areas.

TWDB will directly populate the DB22 with all WUG-level projections and make related changes to the DB22 if revisions are made.

This Task includes, but is not limited to, performing all work in accordance with TWDB rules and guidance required to:

- a) In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.31.¹⁰
- b) Prepare a stand-alone chapter¹¹ (including work from both Tasks 2A & 2B) to be included in the 2021 RWP that also incorporates all of required TWDB DB22 reports into the document.
- c) Receive and make publicly available the draft population and associated water demand projections provided by TWDB and that are based on utility service areas rather than political boundaries.
- d) Evaluate draft population and associated water demand projections provided by TWDB.
- e) Review comments received from local entities and the public for compliance with TWDB requirements.
- f) Provide detailed feedback to TWDB on both population and associated water demand projections, as necessary, including justification and documentation supporting suggested changes with a focus on the transition to utility service areas and, more generally, relevant changed conditions that have occurred since the development of the projections used in the 2017 State Water Plan.
- g) Prepare and submit numerical requests, in tabular format in accordance with TWDB guidance, for revisions of draft population and/or water demand projections and process such requests based on, for example, requests from local entities within the region. The RWPG and/or local entities should provide required documentation and justification of requested revisions.
- h) Communicate and/or meet with TWDB staff and/or local entities requesting revisions, as necessary.
- i) Assist TWDB, as necessary, in resolving final allocations of population and water demands to water user groups to conform with any control totals defined by TWDB, for example, by county and/or region.

¹⁰ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

¹¹ This shall be a separate chapter as required by 31 TAC §357.22(b).

- j) Prepare population and water demand projection summaries for WUGs using final, adopted projections to be provided by the TWDB, as necessary for presentation in documents.
- k) Consider and include in all appropriate planning documents the projections of population and associated water demands for any new WUGs to be provided by the TWDB.
- l) Modify any associated water demand projections for MWPs, as necessary based on final, adopted projections.
- m) Review the *TWDB DB22 Population* and associated *TWDB DB22 Population-Related Water Demand* reports from the DB22¹² and incorporate these planning database reports into any Technical Memoranda, the IPP, and final RWP (labeled as such and with source reference).
- n) Modify any aggregated water demand summaries, for example, for MWPs, accordingly and present in planning documents.
- o) Update WWP contractual obligations to supply water to other entities and report this information along with projected demands including within DB22 and within any planning memorandums or reports, as appropriate.

Task 3 - Water Supply Analyses¹³

This Task involves updating or adding: a) groundwater, surface water, reuse, and other water source availability estimates, and b) existing WUG and WWP water supplies that were included in the 2021 Regional Water Plan, in accordance with methodology described in **Section 3** of the *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development* for estimating surface water, groundwater, systems, reuse, and other supplies during drought of record conditions. All water availability and water supply estimates will be extended through 2070.

This Task includes performing all work in accordance with TWDB rules and guidance required to:

Meet all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.32.¹⁴

Prepare a standalone chapter¹⁵ to be included in the 2021 RWP that also incorporates of all required DB22 reports into the document.

I) Estimate a) Surface Water Availability and b) Existing WUG and WWP Surface Water Supplies:

1. Select hydrologic assumptions, models, and operational procedures for modeling the region's river basins and reservoirs using the most current TCEQ Water Availability Models (WAMs) in a manner appropriate for assessment of existing surface water supply

¹² RWPG technical consultants must attend mandatory training on the Regional Water Planning Application (DB22).

¹³ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

¹⁴ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

¹⁵ This shall be a separate chapter as required by 31 TAC §357.22(b).

and regional water planning purposes. Reservoir systems¹⁶ and their yields shall be modeled in accordance with the *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

2. Obtain TWDB Executive Administrator approval of hydrologic assumptions or models and for any variations from modeling requirements in the *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.
3. As necessary and appropriate, modify or update associated WAMs or other models to reflect recent changes to permits, transfers, legal requirements, new water rights, and/or specified operational requirements. Note that incorporating anticipated sedimentation into firm yield analyses is a required consideration that does not require a hydrologic variance approval from the Executive Administrator.
4. Assign available water supplies, as appropriate, to WUGs and WWP including conducting supply analyses for WWPs.
5. Apply the TCEQ WAMs, as modified and approved by TWDB, and/or other appropriate models to quantify firm yield for major reservoirs, reservoir systems, and firm diversion for run-of-river water rights, as determined on at least a monthly time-step basis. Reservoir firm yield shall be quantified based on the most recent measured capacity and estimated capacity in year 2070.
6. Evaluate TCEQ Water System Data Reports¹⁷ from the Drinking Water Watch or Safe Drinking Water Information System (SDWIS) website for municipal WUGs that use surface water and identify any physical constraints limiting existing water supplies to WUGs and/or WWPs. Limitations to be considered based on delivering treated water to WUGs. Other information that the RWPGs collect, for example, survey results, may be included in the evaluation of infrastructure capacity or limitations in delivering treated water to WUGs.
7. Update information on WWP contractual obligations to supply water to other entities including within DB22. Unless the RWPG considers it unlikely that a specific contract will be renewed, water supplies based on contractual agreements shall be assumed to renew at the contract termination date, for example, if the contract provides for renewal or extensions. Report this information within any planning memorandums or reports, as appropriate.
8. Based on the water availability, existing infrastructure, and associated physical and legal limitations, determine the existing surface water supply available from each surface water source to each WUG and WWP (including newly identified WUGs and WWPs) during a drought of record based on source water availability, infrastructure capacity, legal constraints, and/or operational limitations.
9. Complete and update all required data elements for DB22 through the web interface.¹⁸

¹⁶ Reservoir systems must be approved by TWDB and identified as such in DB22.

¹⁷ Available from TCEQ at <http://dww2.tceq.texas.gov/DWW/>.

¹⁸ In accordance with the Guidelines for Regional Water Plan Data Deliverables. RWPG technical consultants must attend mandatory training on the Regional Water Planning Application (DB22).

10. Compile firm yield and diversion information by Source, WUG, WWP, county, river basin, and planning region as necessary to obtain decadal estimates of existing surface water supply throughout the planning period. This will be facilitated by *TWDB DB22 Water Source Availability* and associated *TWDB DB22 WUG and WWP Existing Water Supply* reports using data provided by RWPGs and made available to all RWPGs through the DB22 interface.
11. Review, confirm the accuracy of, and incorporate the required associated planning database reports directly into the Technical Memorandum, IPP, and adopted RWP under Task 4C (labeled as such and with source reference).

II) Estimate a) Groundwater Availability and b) Existing WUG and WWP Groundwater Supplies:

Obtain and review the Modeled Available Groundwater¹⁹ volumes that are developed by TWDB based on the Desired Future Conditions adopted by Groundwater Management Areas (GMAs). Modeled Available Groundwater volumes for each aquifer will be available from TWDB through the DB22 interface, split into discrete geographic-aquifer units by: Aquifer; County; River Basin; and Region.

1. In areas that were not considered in the DFC process and therefore do not have Modeled Available Groundwater annual volumes but have groundwater supplies, or in RWPGs in which no GCD exists²⁰, develop RWPG-estimated groundwater availability for Board review and approval prior to inclusion in the IPP²¹ and in accordance with the First Amended General Guidelines for Regional Water Plan Development.
2. Consider the impacts of the available Modeled Available Groundwater (MAG) annual volumes on the regional water plan including how it impacts existing water supplies.
3. In areas with Groundwater Conservation District (GCDs), obtain GCD Management Plans and GCD information to be considered when estimating existing supplies and water management strategies under future tasks.
4. Assign available water supplies, as appropriate, to WUGs and WWPs including conducting supply analyses for WWPs.
5. Select hydrologic and other assumptions for distribution of available groundwater for potential future use by WUGs (e.g. via a pro-rationing policy) as existing supply based on models and operational procedures appropriate for assessment of water supply and regional water planning purposes. A specific hydrologic variance request is required to utilize a MAG Peak Factor to accommodate temporary increases in existing annual availability for planning purposes²².

¹⁹ The estimated total pumping from the aquifer that achieves the desired future condition adopted by members of the associated Groundwater Management Area. Modeled Available Groundwater data to be entered into DB22 by TWDB (see guidance document).

²⁰ Related to 84(R) SB 1101 requirements. As of October 2016 these requirements only apply to the North East Texas (Region D) RWPG, as it is the only region currently in the state with no GCDs in its RWPA.

²¹ 31 TAC 357.32(d)(2).

²² Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

6. Evaluate TCEQ Water System Data Reports²³ from the Drinking Water Watch or Safe Drinking Water Information System (SDWIS) website for municipal Water User Groups using groundwater and identify any physical constraints limiting existing water supplies to WUGs and/or WWP. Limitations to be considered based on delivering treated water to WUGs. Other information that the RWPGs collect, for example, survey results, may be included in the evaluation of infrastructure capacity or limitations in delivering treated water to WUGs.
7. Update information on WWP contractual obligations to supply water to other entities including within DB22. Unless the RWPG considers it unlikely that a specific contract will be renewed, water supplies based on contractual agreements shall be assumed to renew at the contract termination date, for example, if the contract provides for renewal or extensions. Report this information within any planning memorandums or reports, as appropriate.
8. Compile and/or update information regarding acquisitions of groundwater rights, for example, for transfer to municipal use, and account for same in the assessment of both availability and existing groundwater supplies.
9. Based on the water availability, existing infrastructure, and associated physical and legal limitations, determines the existing groundwater supply available from each water source to each WUG and WWP (including newly identified WUGs and WWPs) during a drought of record based on water availability, infrastructure capacity, legal constraints, and/or operational limitations.
10. Complete and update all required data elements for DB22 through the web interface.²⁴
11. Compile groundwater availability information by Source, Water User Group, Wholesale Water Provider, county, river basin, and planning region as necessary to obtain decadal estimates of supply throughout the planning period. This will be facilitated by *TWDB DB22 Water Source Availability* and associated *TWDB DB22 WUG and WWP Existing Water Supply* reports using data provided by RWPGs and made available to all RWPGs.

III) Estimate System, Reuse, and Other Types of Existing Supplies

Systems, Reuse, and Other Water Supplies

1. Integrate firm water supplies for WUGs using a system of supply sources (e.g., surface water, storage, and groundwater).
2. Research and quantify existing supplies and commitments of treated effluent through direct and indirect reuse.
3. Compile systems, reuse, and other availability information by source, water user group, wholesale water provider, county, river basin, and planning region as necessary to obtain decadal estimates of supply throughout the planning period.

²³ Available from TCEQ at <http://dww2.tceq.texas.gov/DWW/>.

²⁴ In accordance with the Guidelines for Regional Water Plan Data Deliverables. RWPG technical consultants must attend mandatory training on the Regional Water Planning Application (DB22).

4. Assign available water supplies, as appropriate, to WUGs and WWPs including conducting demand analyses for WWPs.
5. Identify and sub-categorize existing sources in DB22 to extract unique sources. In addition to surface water, groundwater, and reuse, for example, further clarify the source types in DB22 to subcategorize other specific water sources such as desalinated groundwater or desalinated surface water, and seawater desalination, and any other supply types that are connected supplies.
6. Review and confirm the accuracy of the *TWDB DB22 Availability* and associated *TWDB DB22 Existing Water Supply* reports from DB22 and incorporate these planning database reports directly into the Technical Memorandum and other planning documents (labeled as such and with source reference).
7. Identify any physical constraints limiting these existing water supplies to WUGs and/or WWPs including based on TCEQ Water System Data Reports²⁵. Limitations to be considered based on delivering treated water to WUGs. Other information that the RWPGs collect, for example, survey results, may be included in the evaluation of infrastructure capacity or limitations in delivering treated water to WUGs.
8. Update information on WWP contractual obligations to supply water to other entities including within DB22. Unless the RWPG considers it unlikely that a specific contract will be renewed, water supplies based on contractual agreements shall be assumed to renew at the contract termination date, for example, if the contract provides for renewal or extensions. Report this information within any planning memorandums or reports, as appropriate.
9. Based on the water availability, existing infrastructure, and associated physical and legal limitations, determines the existing system, reuse, and other water supplies available from each water source to each WUG and WWP (including newly identified WUGs and WWPs) during a drought of record based on source water availability, infrastructure capacity, legal constraints, and/or operational limitations.
10. Complete and update all required data elements for DB22 through the web interface.
11. Compile these supplies by source, water user group, wholesale water provider, county, river basin, and planning region as necessary to obtain decadal estimates of existing surface water supply throughout the planning period. This will be facilitated by *TWDB DB22 Water Source Availability* and associated *TWDB DB22 WUG and WWP Existing Water Supply* reports using data provided by RWPGs and made available to all RWPGs through the DB22 interface.
12. Review, confirm the accuracy of, and incorporate the required associated planning database reports directly into the Technical Memorandum, IPP, and adopted RWP under Task 4C (labeled as such and with source reference).

²⁵ Available from TCEQ at <http://dww2.tceq.texas.gov/DWW/>.

13. Technical Memo, IPP, and adopted RWP shall include a written summary of all WAM and GAM models on which the surface and groundwater availability in the RWP is based (except for availability associated with MAGs), to include:
- the named/labeled version (incl. date) of each model used;
 - a summary of any modifications to each model and the date these modifications were approved by the EA;
 - name of the entity/firm that performed the model run; and
 - the dates of the model runs.²⁶

Includes all work required to coordinate with other planning regions to develop and allocate estimates of water availability and existing water supplies.

Task 4A – Identification of water needs (WUG analysis to be performed by TWDB)²⁷

Work shall include but not be limited to the following:

1. In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.33.²⁸
2. Prepare a standalone chapter²⁹ to be included in the 2021 RWP that also incorporates of all required DB22 reports into the document.
3. *Based upon updated projections of existing water supply and projected water demands under Tasks 2 and 3, and the associated data entered into DB22, TWDB will update computations of identified water needs (potential shortages) by WUGs and WUG customers of WWPs. As decadal estimates of needs (potential shortages) as well as by, county, river basin, and planning region.*
4. *The results of this computation will be provided by TWDB via DB22 to RWPGs in a customizable format that is in accordance with TWDB rules as the TWDB DB22 Identified Water Needs report*
5. Regions may also request additional, unique needs analysis (e.g., for a WWP) that the RWPG considers warranted. Such reports will be provided by TWDB, if feasible based on the DB22 constraints and TWDB resources. The RWPG will need to enter or provide any additional data into DB22 that may be necessary to develop these evaluations.
6. The DB22 needs reports and RWPG-identified water needs for WWPs shall be incorporated by the RWPG into the Technical Memorandum, IPP, and adopted RWP (labeled as such and with source reference).

²⁶ All input files of WAM models shall be included as an electronic appendix in the IPP and RWP.

²⁷ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

²⁸ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

²⁹ This shall be a separate chapter as required by 31 TAC §357.22(b).

7. Upon request, TWDB will perform a socioeconomic analysis of the economic effects of not meeting the identified water needs and update and summarize potential social and economic effects under this Task. This report will be provided to RWPGs as part of this Task and incorporated into the adopted regional water plans.

8. If the RWPG chooses to develop its own socioeconomic analysis the resulting socioeconomic report, with documented methodology, shall be incorporated into the IPP and adopted regional water plan by the RWPG.
9. A secondary needs analysis will be calculated by TWDB based on DB22 for all WUGs and WWPs for which conservation or direct reuse water management strategies are recommended. The results of this computation will be provided to RWPGs in accordance with TWDB rules and shall be incorporated by the RWPG into the regional water plan as *TWDB DB22 Second-Tier Identified Water Need* report.

Task 4B - Identification of Potentially Feasible Water Management Strategies³⁰

This Task includes, but is not limited to, performing all work in accordance with TWDB rules and guidance required to:

1. In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.34(a)(b)(c).³¹
2. Receive public comment on a proposed process to be used by the RWPG to identify and select water management strategies for the 2021 regional water plan. Revise and update documentation of the process by which water management strategies that are potentially feasible for meeting a need were identified and selected for evaluation in the 2021 regional water plan. Include a description of the process selected by the RWPG in the Technical Memorandum and the IPP and adopted regional water plans.
3. Consider the TWDB Water Loss Audit Report, conservation best management practices, and drought management when considering potentially feasible water management strategies as required by rules.
4. Update relevant portions of the regional water plan summary of existing water supply plans for local and regional entities. This Task requires obtaining and considering existing water supply plans. Updated summary to be included in the IPP and adopted regional water plans.
5. Plans to be considered in developing water management strategies include those referenced under 31 TAC §357.22.
6. If no potentially feasible strategy can be identified for a WUG or WWP, document the reason for this in the Technical Memorandum and the IPP and adopted regional water plans.

³⁰ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

³¹ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

7. Consider recent studies and describe any significant changes in water management strategies described as being in the implementation phase in the 2021 RWP as well as any new projects in the implementation phase prior to adoption of the Initially Prepared 2021 Regional Water Plan.
8. Identify potential water management strategies to meet needs for all WUGs and WWPS with identified needs, including any new retail utility WUGs and WWPS that may have been previously aggregated under County-other in the 2016 regional water plan but which are being treated as unique entities for the 2021 regional water plan.
9. Present a list of the potentially feasible water management strategies, in table format, within the Technical Memorandum and the IPP and adopted regional water plans.

Task 4C - Prepare and Submit Technical Memorandum and RWPG Analysis of WUG and MWP Needs³²

This Task includes, but is not limited to, performing all work in accordance with TWDB rules and guidance required to:

1. Prepare a concise Technical Memorandum consisting solely of each of the DB22 reports described under Tasks 2A, 2B, 3, 4A, and 4B as required by the *First Amended General Guidelines for Regional Water Plan Development* (Table 2) within the body of the memorandum.
2. Approve submittal of the Technical Memorandum to TWDB at a regular regional water planning group meeting. The Technical Memorandum must be submitted to TWDB in accordance with Section I Article I of the contract.
3. To the extent necessary, this Task budget may also be applied toward effort required to:
 - a) Develop preliminary water needs analyses outside of DB22 that may be necessary due to DB22 not yet being available;
 - b) Prepare, organize, enter, and/or update required data elements for DB22 including data related to existing water supplies or water management strategies.

Task 5A - Evaluation and Recommendation of WMSs and Associated Water Management Strategy Projects (WMSPs)

The objective of this task is to evaluate and recommend WMS and their associated WMSPs, including preparing a separate chapter and subchapter (on conservation recommendations see - Task 5B) to be included in the 2021 RWP that describes the work completed, presents the potentially feasible WMSs, recommended and alternative WMSs and WMSPs, including all the technical evaluations, and presents which water user entities will rely on the recommended WMSs and WMSPs.

Work shall be contingent upon a written notice-to-proceed and shall include but not be limited to the following:

³² Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

- a) In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.34 and §357.35 that is not already included under Tasks 4B, 5A, or 5B.³³
- b) Plans to be considered in developing WMSs include those referenced under 31 TAC §357.22.
- c) Inclusion of a list of the potentially feasible WMSs that were identified by the RWPG. Information to include what past evaluations have been performed for each potentially feasible WMS listed.
- d) Technical evaluations of all categories of potentially feasible WMSs including previously identified or recommended WMSs and newly identified WMSs including drought management and conservation WMSs; WMS and WMSP documentation shall include a strategy description, discussion of associated facilities, project map, and technical evaluation addressing all considerations and factors required under 31 TAC §357.34(d)-(h) and §357.35.
- e) Process of selecting all recommended WMSs and associated WMSPs including development of WMS evaluations matrices and other tools required to assist the RWPG in comparing and selecting recommended WMSs and WMSPs.
- f) Consideration of water conservation and drought contingency plans from each WUG, as necessary, to inform WMS evaluations and recommendations.
- g) Communication, coordination, and facilitation required within the RWPA and with other RWPGs to develop recommendations.
- h) Updates to descriptions and associated technical analyses and documentation of any WMSs and WMSPs that are carried forward from the previous RWP to address:
 - Changed conditions or project configuration
 - Changes to sponsor of WMS and WMSP(s)
 - Updated costs (based on use of required costing tool³⁴)
 - Other changes that must be addressed to meet requirements of 31 TAC §357.34 and §357.35.
- i) Assignment of all recommended WMS water supplies to meet projected needs of specific WUGs.
- j) Documentation of the evaluation and selection of all recommended WMS and WMSPs, including an explanation for why certain types of strategies (e.g., aquifer storage and recovery, seawater desalination, brackish groundwater desalination) may not have been recommended.

³³ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

³⁴ See section 5.1.1 under 'Financial Costs' in *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

- k) Coordination with sponsoring water user groups, wholesale water providers, and/or other resource agencies regarding any changed conditions in terms of projected needs, strategy modifications, planned facilities, market costs of water supply, endangered or threatened species, etc.
- l) If applicable, determination of the “highest practicable level” of water conservation and efficiency achievable (as existing conservation or proposed within a water management strategy) for each WUG that relies on a WMS involving and interbasin transfer to which TWC 11.085 applies. Recommended conservation WMSs associated with this analysis shall be presented by WUG.
- m) Presentation of the water supply plans in the RWP for each WUG and WWP relying on the recommended WMSs and WMSPs.
- n) Consideration of alternative WMSs and WMSPs for inclusion in the plan. Alternative water management strategies must be fully evaluated in accordance with 31 TAC §357.34(d)-(h).
- o) Incorporation of all required DB22 reports into document.
- p) Submission of data through the Regional Water Planning Application (DB22) to include the following work:
 - review of the data,
 - confirmation that data is accurate,
 - incorporation of the required DB22 reports into the draft and final regional water planning chapter document
- q) Review of the chapter document and related information by RWPG members,
- r) Modifications to the chapter document based on RWPG, public, and or agency comments.
- s) Submittal of chapter document to TWDB for review and approval; and
- t) All effort required to obtain final approval of the regional water plan chapter and associated DB22 data by TWDB.
- u) *[SCOPE OF WORK TO BE DETERMINED]*

Scope of Work to be amended based on specific Task 5A scope of work to be developed and negotiated with TWDB. Work under this Task to be performed only after approval and incorporation of Task 5A scope of work and written notice-to-proceed. NOTE: Work effort associated with preparing and submitting a proposed Task 5A scope of work for the purpose of obtaining a written ‘notice-to-proceed’ from TWDB is not included in Task 5A and shall not be reimbursed under the Contract.

Deliverables: A completed Chapter 5 shall be delivered in the 2021 RWP as a work product to include technical analyses of all evaluated WMSs and WMSPs. Data shall be submitted and finalized through DB22 in accordance with the Guidelines for Regional Water Planning Data Deliverables.

Task 5B - Water Conservation Recommendations

The objective of this task is to prepare a separate subchapter³⁵ of Chapter 5 to be included in the 2021 RWP that consolidates conservation-related recommendations and provide model water conservation plans.

Work shall include but not be limited to the following:

- a) In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.34(g).³⁶
- b) Consider water conservation plans from each WUG, as necessary, to inform conservation WMSs and other recommendations.
- c) If applicable, explanation of the RWPG's basis for not recommending conservation for WUGs that had identified water needs but did not have a recommended conservation WMS.
- d) If applicable, present what level of water conservation (as existing conservation or proposed within a water management strategy) is considered by the RWPG as the "highest practicable level" of water conservation for each WUG and/or WWP that are dependent upon water management strategies involving interbasin transfers to which TWC 11.085 applies.
- e) Provision of model water conservation plans that may be referenced, instead of included in hard copy, in this subchapter, for example, by using internet links.
- f) Review of the subchapter document and related information by RWPG members,
- g) Modifications to the subchapter document based on RWPG, public, and or agency comments.
- h) Submittal of subchapter document to TWDB for review and approval; and
- i) All effort required to obtain final approval of the regional water plan by TWDB.

Deliverables: A completed Subchapter of Chapter 5 shall be delivered in the 2021 RWP as a work product.

Task 6 - Impacts of Regional Water Plan and Consistency with Protection of Resources

The objective of this task is to prepare a separate chapter³⁷ to be included in the 2021 Regional Water Plan (RWP) that describes the potential impacts of the regional water plan and how the plan

³⁵ This shall be a separate subchapter as required by 31 TAC §357.34(h).

³⁶ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

³⁷ This shall be a separate chapter as required by 31 TAC §357.22(b).

is consistent with long-term protection of water resources, agricultural resources, and natural resources.

Work shall include but not be limited to the following:

- a) In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.40 and §357.41.³⁸
- b) Evaluation of the estimated cumulative impacts of the regional water plan, for example on groundwater levels, spring discharges, bay and estuary inflows, and instream flows.
- c) Review of the chapter document by RWPG members.
- d) Modifications to the chapter document based on RWPG, public, and or agency comments.
- e) Submittal of chapter document to TWDB for review and approval; and
- f) All effort required to obtain final approval of the regional water plan chapter by TWDB.

Deliverables: A completed Chapter 6 shall be delivered in the 2021 RWP as a work product.

Task 7 – Drought Response Information, Activities and Recommendations

The objective of this task is to prepare a separate chapter³⁹ to be included in the 2021 RWP that: presents information regarding historical droughts and on preparations for drought in the region; develops recommendations for triggers and responses to the onset of drought conditions; evaluates potential emergency responses to local drought conditions; and includes various other drought-related evaluations and recommendations.

Work shall include but not be limited to the following:

- a) In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.42.⁴⁰
- b) Plans to be considered in developing this chapter include relevant plans referenced under 31 TAC §357.22.
- c) Collecting information on previous and current responses to drought in the region including reviewing drought contingency plans received from each WUG and determining what

³⁸ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

³⁹ This shall be a separate chapter as required by 31 TAC §357.22(b).

⁴⁰ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

measures are most commonly used and whether these measures have been recently implemented in response to drought conditions.

- d) Determining whether there is any reliable information on the reduction in demands on individual WUGs caused by their implementation of drought contingency measures.
- e) Process of selecting recommended triggers and actions including any tools required to assist the RWPG in comparing options and making recommendations.
- f) Consideration of drought contingency plans from each WUG, as necessary, to inform WMS evaluations and recommendations.
- g) Coordination and communication, as necessary, with entities in the region to gather information required to develop recommendations.
- h) Summarization of potentially feasible drought management WMS, recommended drought management WMS, and or alterative drought management WMSs, if any, associated with work performed under Task 5A.
- i) If applicable, explanation of the RWPG's basis for not recommending drought management strategies for WUGs that had identified water needs but did not have a recommended drought management WMS.
- j) Development by the RWPG of region-specific model drought contingency plans consistent with TCEQ requirements that, at a minimum, identify triggers for and responses to the most severe drought response stages commonly referred as 'severe', 'critical' and 'emergency' drought conditions.
- k) Summary of any other drought management measures recommended by the RWPG.
- l) Preparation of tabular data for inclusion in chapter.
- m) Review of the chapter document and related information by RWPG members.
- n) Modifications to the chapter document based on RWPG, public, and or agency comments.
- o) Submittal of chapter document to TWDB for review and approval; and
- p) All effort required to obtain final approval of the regional water plan chapter and associated data by TWDB.

Deliverables: A completed Chapter 7 shall be delivered in the 2021 RWP as a work product. Data shall be submitted in the form of tables included in the chapter.

Task 8 - Recommendations Regarding Unique Stream Segments and/or Reservoir Sites and Legislative & Regional Policy Issues

The objective of this task is to prepare a separate chapter⁴¹ to be included in the 2021 RWP that presents the RWPG's unique stream segment, unique reservoir site, legislative, administrative, and regulatory recommendations.

Work shall include but not be limited to the following:

- a) In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.43 and §358.2.⁴²
- b) Plans to be considered in developing this chapter include relevant plans referenced under 31 TAC §357.22.
- c) RWPG consideration and discussion of potential recommendations for designation of ecologically unique stream segments within the RWPA, based on criteria in 31 TAC §358.2.
- d) If applicable, prepare a draft memorandum recommending which stream segments in the region, if any, should be recommended for designation as ecologically unique stream segments. Evaluate and incorporate comments from the regional water planning group. Upon approval by the group, submit the draft memorandum to TWDB and TPWD for comments.
- e) RWPG consideration and discussion of potential recommendations for designation of unique reservoir sites within the RWPA.
- f) If applicable, prepare a draft memorandum recommending designation of unique sites for reservoir development. Evaluate and incorporate comments from the regional water planning group. Upon approval by the group, submit the draft memorandum to TWDB for comments.
- g) RWPG consideration and discussion of potential regional policy issues; identification and articulation of recommendations for legislative, administrative, and regulatory rule changes; and negotiations toward RWPG consensus.
- h) Review of the chapter document and related information by RWPG members.
- i) Modifications to the chapter document based on RWPG, public, and or agency comments.
- j) Submittal of chapter document to TWDB for review and approval; and
- k) All effort required to obtain final approval of the regional water plan chapter by TWDB.

⁴¹ This shall be a separate chapter as required by 31 TAC §357.22(b).

⁴² Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

Deliverables: A completed Chapter 8 shall be delivered in the 2021 RWP as a work product.

Task 9 - Water Infrastructure Funding Recommendations

The objective of this task is to reports on how sponsors of recommended WMSPs propose to finance projects as a separate chapter⁴³ to be included in the 2021 RWP .

Work shall include but not be limited to the following:

- a) In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.44.⁴⁴
- b) Coordination and communication with sponsoring water user groups, wholesale water providers, and/or other water agencies.
- c) Perform a survey, including the following work:
 - a. Contacting WMSP sponsors/WUGs
 - b. Collection and collation of data
 - c. Documentation of the effectiveness of survey methodology, providing percent survey completions, and whether an acceptable minimum percent survey completion was achieved.
 - d. Submission of data into the online survey tool
- d) Coordination with WUGs and WWP as necessary to ensure detailed needs and costs associated with their anticipated projects are sufficiently represented in the RWP for future funding determinations.
- e) Assisting the RWPG with the development of recommendations regarding the proposed role of the State in financing water infrastructure projects identified in the RWP.
- f) Summarizing the survey results.
- g) Review chapter document and related information by RWPG members.
- h) Submittal of chapter document to TWDB for review and approval; and
- i) All effort required to obtain final approval of the regional water plan chapter and associated DB22 data by TWDB.

Deliverables: A completed Chapter 9 shall be delivered in the 2021 RWP as a work product to include summary of reported financing approaches for all recommended WMSPs. Data shall be submitted and finalized through the online survey tool in accordance with the *Guidelines for Regional Water Planning Data Deliverables*.

⁴³ This shall be a separate chapter as required by 31 TAC §357.22(b).

⁴⁴ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

Task 10 - Public Participation and Plan Adoption⁴⁵

The objective of this task is to address public participation, public meetings, eligible administrative and technical support activities, and other requirements and activities eligible for reimbursement and necessary to complete and submit an IPP and final RWP and obtain TWDB approval of the RWP.

Work shall include but not be limited to the following:

- a) In addition to generally meeting all applicable statute requirements governing regional and state water planning this portion of work shall, in particular, include all technical and administrative support activities necessary to meet all the requirements of 31 TAC Chapters 355, 357, and 358 that are not already addressed under the scope of work associated with other contract Tasks but that are necessary and or required to complete and deliver an IPP and final, adopted RWP to TWDB and obtain approval of the adopted RWP by TWDB.⁴⁶
- b) Organization, support, facilitation, and documentation of all meetings/hearings associated with: preplanning meeting; meetings associated with revision of projections; consideration of a substitution of alternative water management strategies; public hearing after adoption of the IPP and prior to adoption of the final RWP; and consideration of a Minor Regional Water Plan Amendments.

Technical Support and Administrative Activities

- c) Attendance and participation of technical consultants at RWPG, subgroup, subcommittees, special and or other meetings and hearings including preparation and follow-up activities.
- d) Developing technical and other presentations and handout materials for regular and special meetings to provide technical and explanatory data to the RWPG and its subcommittees, including follow-up activities.
- e) Collecting and evaluating information, including any information gathering surveys from water suppliers or WUGs, (e.g., on existing infrastructure; existing water supplies; potentially feasible WMSs) and or maintenance of contact lists for regional planning information in the region.
- f) Administrative and technical support and participation in RWPG activities, and documentation of any RWPG workshops, work groups, subgroup and/or subcommittee activities.
- g) Technical support and administrative activities associated with periodic and special meetings of the RWPG including developing agendas and coordinating activities for the RWPG.

⁴⁵ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Fifth Cycle of Regional Water Plan Development*.

⁴⁶ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

- h) Provision of status reports to TWDB for work performed under this Contract.
- i) Development of draft and final responses for RWPG approval to public questions or comments as well as approval of the final responses to comments on RWP documents.
- j) Intraregional and interregional coordination and communication, and or facilitation required within the RWPA and with other RWPGs to develop a RWP including with water suppliers or other relevant entities such as groundwater conservation districts, WUGs, and or WWPs.
- k) Incorporation of all required DB22 reports into RWP document.
- l) Modifications to the RWP documents based on RWPG, public, and or agency comments.
- m) Preparation of a RWP chapter summarizing Task 10 activities including review by RWPG and modification of document as necessary.
- n) Development and inclusion of Executive Summaries in both IPP and final RWP.
- o) Production, distribution, and submittal of all draft and final RWP-related planning documents for RWPG, public and agency review, including in hard-copy format when required.
- p) Assembling, compiling, and production of the completed IPP and Final Regional Water Plan document(s) that meet all requirements of statute, 31 TAC Chapters 355, 357 and 358, Contract and associated guidance documents.
- q) Submittal of the RWP documents in both hard copy and electronic formats to TWDB for review and approval; and all effort required to obtain final approval of the RWP by TWDB.

Other Activities

- r) Review of all RWP-related documents by RWPG members.
- s) Development and maintenance of a website for public posting of RWPG information.
- t) Limited non-labor, direct costs associated with maintenance of the RWPG website.
- u) Development of agendas, presentations, and handout materials for the public meetings and hearings to provide to the general public.
- v) Documentation of meetings and hearings to include recorded minutes and or audio recordings as required by the RWPG bylaws and archiving and provision of minutes to public.
- w) Preparation and transmission of correspondence, for example, directly related to public comments on RWP documents.
- x) Promoting consensus decisions through conflict resolution efforts including monitoring and facilitation required to resolve issues between and among RWPG members and

stakeholders in the event that issues arise during the process of developing the RWP, including mediation between RWPG members, if necessary.

- y) RWPG membership solicitation activities.
- z) Meeting all posting, meeting, hearing and other public notice requirements in accordance with the open meetings act, statute, and 31 TAC §357.21 and any other applicable public notice requirements.

aa) Solicitation, review, and dissemination of public input, as necessary.

Deliverables: Complete IPP and final, adopted RWP documents shall be delivered as work products. This includes a completed Chapter 10 summarizing public participation activities and appendices with public comments and RWPG responses to comments.

Task 11 – Implementation and Comparison to the Previous Regional Water Plan

The objective of this task is to evaluate and recommend water management strategies (WMS) including preparing a separate chapter⁴⁷ to be included in the 2021 RWP that reports on the degree of implementation of WMSs from the previous RWP and summarizes how the new RWP compares to the previous RWP.

Work shall include but not be limited to the following:

- a) In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.45.⁴⁸
- b) Implementation (31 TAC §357.45(a)):
 - I. Coordination and communication with RWPG representatives and sponsors of WMSs, including WUGs and WWP
 - II. Documentation of the level of implementation of each WMS that was recommend in the previous regional water plan
 - III. Submission of implementation results data in the online survey tool and in spreadsheet format
 - IV. To the extent feasible, identify other projects implemented by these entities that are not included in the previous RWP
- c) Comparison to the Previous Regional Water Plan (31 TAC §357.45(b)):
 - I. Compare the RWP to the previous RWP by chapter in the new RWP
 - II. Summarize differences quantitatively and qualitatively
 - III. Present information in graphical, tabular, and written format

⁴⁷ This shall be a separate chapter as required by 31 TAC §357.22(b).

⁴⁸ Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

- d) Review of the chapter document and related information by RWPG members.
- e) Modifications to the chapter document based on RWPG, public, and or agency comments.
- f) Submittal of chapter document to TWDB for review and approval; and
- g) All effort required to obtain final approval of the regional water plan chapter and associated DB22 data by TWDB.

Deliverables: A completed Chapter 11 shall be delivered in the 2021 RWP as a work product. Survey data shall be submitted and finalized through the online survey tool in accordance with the Guidelines for Regional Water Planning Data Deliverables.

Task 12 - Prepare and submit prioritization of projects in the 2021 Regional Water Plan

The objective of this task is to prioritize the projects in the 2021 regional water plan by applying the uniform standards developed by the HB4 Stakeholder Committee and approved by the governing Board of TWDB. RWPGs shall prioritize projects based on the latest TWDB-approved version of the uniform standards, as updated or clarified, available at the time of required draft or final prioritization submittal. These uniform standards will be made available on the TWDB website.

TWDB will provide to the RWPGs an alphabetized **region-sponsor- strategy prioritization template** that contains projects that the region must prioritize under this Task. The alphabetized region-sponsor-strategy prioritization template is based upon the recommended water management strategies in the 2021 regional water plan, as provided by the RWPG to TWDB in the state water plan database (DB22).

Work includes, but is not limited to, the following:

1. Applying all of the uniform standards to each project and filling in the prioritization template provided by TWDB.
2. Approval of submittal to TWDB of the final prioritization template at regular regional water planning group meetings.
3. Submission to TWDB of the final prioritization templates in the same format as provided by TWDB and that displays each uniform standard score, for each project.

Deliverables: A completed prioritization of projects submitted in the form of a filled-in region- sponsor- strategy prioritization template to TWDB by the submittal date of the final adopted RWP⁴⁹.

The prioritized projects shall be submitted separately with the adopted RWP as required by 31 TAC §357.46.

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APPENDIX B
TASK BUDGET

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Appendix B

Project Task Budget by Scope Item

TASK	TASK DESCRIPTION	BUDGET
1	Planning Area Description	\$ 6,724
3	Water Supply Analyses	\$ 17,282
4A	Identification of Water Needs	\$ 10,070
4B	Identification of Potentially Feasible Water Management Strategies and Water Management Strategy Projects	\$ 5,267
4C	Prepare and Submit Technical Memorandum	\$ 7,301
5A	Evaluation and Recommendation of Water Management Strategies and Water Management Strategy Projects	\$ 45,001
5B	Water Conservation Recommendations	\$ 5,924
6	Impacts of Regional Water Plan	\$ 11,678
7	Drought Response, Activities, and Recommendations	\$ 12,427
8	Recommendations Regarding Unique Stream Segments and/or Reservoir Sites and Legislative and Regional Policy Issues	\$ 5,063
9	Water Infrastructure Funding Recommendations	\$ 1,669
10*	Public Participation and Plan Adoption	\$ 65,707
11	Implementation and Comparison to the Previous Regional Water Plan	\$ 9,608
12	Prepare and Submit Prioritization of Projects in the 2021 Regional Water Plan	\$ 5,148
Total Funds		\$ 208,870

* This task was partially funded in the initial fifth cycle contracts

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APPENDIX C
EXPENSE BUDGET

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Appendix C

CONTRACTOR (LAVACA-NAVIDAD RIVER AUTHORITY) EXPENSE BUDGET

CATEGORY	TOTAL AMOUNT
Other Expenses ¹	\$0
Subcontract Services	\$208,870
Voting Planning Member Travel ²	\$0
Total Study Cost ³	\$208,870

¹Eligible Other Expenses are administrative costs associated with Political Subdivisions and are defined to be direct, non-labor costs including:

- a) expendable supplies actually consumed in direct support of the planning process;
- b) direct communication charges;
- c) limited direct costs/fees of maintaining RWPG website domain, website hosting, and/or website – not to exceed \$250.00 per calendar year;
- d) reproduction of materials directly associated with notification or planning activities (currently 10¢ per copy or the actual non-labor direct costs as documented by the Contractor);
- e) direct postage (e.g., postage for mailed notification of funding applications or meetings); and
- f) other direct costs of public meetings, all of which must be directly related to planning (e.g., newspaper and other public notice posting costs).

²Voting Planning Member Travel Expenses is defined as eligible mileage expenses incurred by regional water planning members that cannot be reimbursed by any other entity, political subdivision, etc. as certified by the voting member. The reimbursed amount is limited to the maximum amounts authorized for state employees by the General Appropriations Act, Tex. Leg. Regular Session, 2013, Article IX, Part 5, as amended or superseded.

³Ineligible Expenses include, but are not limited to:

- a) Compensation for the time or expenses of RWPGs members' service on or for the RWPG;
- b) Costs of administering the RWPGs, including labor costs, or building, or overhead costs associated with the Political Subdivision;
- c) Indirect or labor costs of public notice and meetings, including time and expenses for attendance at such meetings;
- d) Costs for training;
- e) Costs of reviewing products developed due to funding requests to TWDB;
- f) Costs of administering the regional water planning grant and associated contracts;
- g) Labor, reproduction, or distribution of newsletters;
- h) Direct costs greater than \$250.00 per year for domain fees, website hosting, and/or web site maintenance costs;
- i) Food, drink, or lodging for Regional Water Planning Group members (including tips and alcoholic beverages);
- j) Purchase, rental, or depreciation of equipment (e.g., computers, copiers, fax machines);
- k) General purchases of office supplies not documented as consumed directly for the planning process; and
- l) Costs associated with social events or tours.

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APPENDIX D
TIME SCHEDULE

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**LAVACA REGIONAL WATER PLANNING GROUP
TIME SCHEDULE FOR COMPLETING THE
FIFTH CYCLE OF THE REGIONAL WATER PLAN**

Appendix D

Proposed Region P Task Timeline		2016				2017				2018				2019				2020				
		1Q	2Q	3Q	4Q																	
Task 1	Planning Area Description																					
Task 3	Water Supply Analyses																					
Task 4A	Identification of Water Needs																					
Task 4B	Identification of Potentially Feasible Water Management Strategies & Water Management Strategy Projects																					
Task 4C1	Prepare & Submit Technical Memorandum																					
Task 5A	Evaluation & Recommendation of Water Management Strategies & Water Management Strategy Projects																					
Task 5B	Water Conservation Recommendations																					
Task 6	Impacts of Regional Water Plan																					

1 Technical Memorandum due to TWDB: September 10, 2018

Proposed Region P Task Timeline		2016				2017				2018				2019				2020			
		1Q	2Q	3Q	4Q																
Task 7	Drought Response, Activities & Recommendations																				
Task 8	Recommendations Regarding Unique Stream Segments and/or Reservoir Sites & Legislative & Regional Policy Issues																				
Task 9	Water Infrastructure Funding Recommendations																				
Task 10 2, 3, 4, 5	Public Participation & Plan Adoption																				
Task 11	Implementation & Comparison to the Previous Regional Water Plan																				
Task 12	Prepare & Submit Prioritization of Projects in the 2021 Regional Water Plan																				

2 Fifth Cycle Initially Prepared Regional Water Plan due to TWDB: March 3, 2020

3 Fifth Cycle Adopted Regional Water Plan due to TWDB: September 2, 2020

4 Final Adopted Fifth Cycle Regional Water Plan statutory deadline to TWDB: January 5, 2021

5 This task was partially funded in the initial fifth cycle contracts.

APPENDIX E
QUALIFICATIONS AND DIRECT EXPERIENCE
OF
PROPOSED PROJECT STAFF

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Patrick Brzozowski, P. E.
General Manager
Lavaca-Navidad River Authority
P.O. Box 429
Edna, Texas
361-782-5229 FAX 361-782-5310

2003 to Present

Lavaca-Navidad River Authority
General Manager

Chief Administrative Officer
Manages and operates the affairs of the LNRA

1998 to 2003

Lavaca-Navidad River Authority
Water Resource Manager/Chief Engineer

Duties included:

Managing operation and maintenance of water delivery and utility sections
Managing environmental matters
Reservoir Management Operations
Managing Recreation Operation and Maintenance

BS Civil Engineering, University of Houston
Registered Professional Engineer

Secretary, Lavaca Regional Water Planning Group
Board Member, Texas Water Conservation Association
Member – American Water Works Association, Texas Water Utilities Association

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APPENDIX F
PROOF OF NOTIFICATION

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Public Notice and Public Participation

Public notice was given in February 2017 to advise the public that the Lavaca Regional Water Planning Group was submitting a grant application for financial assistance to the Texas Water Development Board (TWDB) and that public comments were being accepted.

Notice was published in a newspaper of general circulation in each county located in whole or in part in the region or a total of three newspapers. (See attached summary of published newspaper legal ads for the dates of publication.) Publisher's affidavits and tear sheets providing proof of publication were received.

Notice was mailed to all voting and non-voting RWPG members; any person or entity who has requested notice of RWPG activities in writing or email; each mayor of a municipality with a population of 1,000 or more or which is a county seat that is located in whole or in part in the RWPA; each county judge of a county located in whole or in part in the RWPA; each special or general law district or river authority with responsibility to manage or supply water in the RWPA based upon lists of such water districts and river authorities obtained from Texas Commission on Environmental Quality; and all RWPGs in the state.

Notices included a summary of the proposed action to be taken, the name, telephone number and address of the LRWPG Secretary and the TWDB Administrator to whom questions or requests for additional information could be submitted, and information on the duration of the comment period. (See attached copies of mailed and published notices.)

NEWSPAPERS FOR PUBLICATION OF PAID NOTICES--LRWPG--FEBRUARY 2017

Newspaper

Publication Date

Jackson County Herald-Tribune

Wednesday, February 1

El Campo Leader-News

Wednesday, February 1

Hallettsville Tribune-Herald

Wednesday, February 1

Mailouts to Voting and Non-Voting RWPG Members and Others

Name	City
Harrison Stafford	Edna
Robert C. Martin	Edna
Jack Maloney	Sublime
Jim Coleman	Edna
Marie Day	Shiner
Patrick Brzozowski	Edna
Ed Weinheimer	El Campo
John Butschek	Hallettsville
Michael Skalicky	Ganado
Tom Chandler	Palacios
Phillip S. Spennath	Wharton
Richard J. Ottis	El Campo
Robert Shoemate	Edna
L.G. Raun	El Campo
Neil Hudgins	Wharton
David E. Wagner	Shiner
Edward Pustka	Hallettsville
Richard Young	El Campo
Joshua Harper	Palacios
Haskell Simons	Bay City
Jaime Burke	Austin
Ron Ellis	Austin
Wesley Miller	Victoria
Mike Fields	Fannin
Tim Andruss	Edna
U.S. Geological Survey	Austin
City of Corpus Christi	Corpus Christi
Texas Farm Bureau	Waco
Formosa Plastics Corporation	Point Comfort
Inteplast Corporation	Lolita
Texas Parks and Wildlife	Austin
Sierra Club	Austin

Name	City
Emmett Gloyna	Victoria
David Myers	Hallettsville
Texas Department of Agriculture	Houston
National Wildlife Federation	Austin
Lower Colorado River Authority	Austin
City of Point Comfort	Point Comfort
Calhoun Port Authority	Point Comfort
Ronald Kubecka	Palacios
Glenn T. Martin	Edna
Scott Sachtleben	Ganado
Leonard A. Steffek	Edna
David Muegge	Edna
Sandy Johs	La Ward
Jerry Adelman	Palacios
Terri Parker	Ganado
Charles Taylor	Palacios

Mailouts to City Mayors and County Judges

Name	Title	Political Area	City
Dennis Simons	County Judge	Jackson County	Edna
Warren Grindeland	Mayor	City of Hallettsville	Hallettsville
Fred Hilscher	Mayor	City of Shiner	Shiner
Clinton Tegeler	Mayor	City of Ganado	Ganado
Phillip S. Spenrath	County Judge	Wharton County	Wharton
Domingo Montalvo, Jr.	Mayor	City of Wharton	Wharton
Randy Collins	Mayor	City of El Campo	El Campo
Richard Koch	Mayor	City of LaWard	LaWard
Tramer Woytek	County Judge	Lavaca County	Hallettsville
Joe Hermes	Mayor	City of Edna	Edna
Anita Rodriguez	Mayor	City of Yoakum	Yoakum
Ervin Patek	Mayor	City of Moulton	Moulton

Mailouts to Regional Water Planning Groups

Name	Region	Affiliation	City
C. E. Williams	A	Panhandle GWCD	White Deer
Curtis Campbell	B	Red River Authority	Wichita Falls
Jody Puckett	C	City of Dallas Water Utilities	Dallas
Richard LeTourneau	D	North East Texas	Longview
Jesus "Chuy" Reyes	E	Far West	Clint
John Grant	F	Colorado River Municipal Water District	Big Spring
Wayne Wilson	G	Wilson Cattle Company	Bryan
Mark Evans	H	N. Harris Co. Regional WA	Trinity
Kelley Holcomb	I	Angelina and Neches River Authority	Lufkin

Jonathan Letz	J	Kerr County	Kerrville
John Burke	K	John Burke & Associates	Bastrop
Suzanne B. Scott	L	San Antonio River Authority	San Antonio
Tomas Rodriguez, Jr.	M	Rio Grande Water	Laredo
Scott Bledsoe, III	N	Live Oak Underground WCD	Oakville
Carola Serrato	N	South Texas Water Authority	Kingsville
Aubrey Spear	O	City of Lubbock	Lubbock
Harrison Stafford II	P	Lavaca Regional Water Planning Group	Edna

Mailouts to Water Districts/River Authorities

Name	City
Jackson County Countywide DD	Edna
Jackson County Navigation District	Victoria
Jackson County WCID 1	Lolita
Jackson County WCID 2	Vanderbilt
Texana Groundwater Conservation District	Edna
Lavaca County Flood District 3	Hallettsville
Lavaca County Groundwater Conservation District	Hallettsville
Boling MWD	Boling
Coastal Bend Groundwater Conservation District	Wharton
Hungerford MUD 1	Hungerford
Isaacson MUD	El Campo
Wharton County WCID 1	Louise
Wharton County WCID 2	East Bernard
Lower Colorado River Authority	Austin

Mailouts to Public Water Systems

Name	City
City of Hallettsville	Hallettsville
City of LaWard	LaWard
Jackson County WCID 1	Lolita
Jackson County WCID 2	Vanderbilt
City of Moulton	Moulton
City of Shiner	Shiner
City of Yoakum	Yoakum
City of Edna	Edna
City of El Campo	El Campo
City of Ganado	Ganado
Isaacson MUD	El Campo
Wharton County WCID 1	Louise
Cape Carancahua WSC	Palacios
LaSalle Landing Water System	Inez

Jackson County WCID 1	Lolita
Jackson County WCID 2	Vanderbilt
Village Estates Mobile Home Park	El Campo
Village Estates Mobile Home Park	Corpus Christi
Tri-County Point Water System 2	Palacios

FROM: Lavaca Regional Water Planning Group (Region P)
DATE: January 31, 2017
SUBJECT: **Notice of Application for Regional Water Planning Grant Funding to complete the Fifth Cycle of Regional Water Planning**

NOTICE TO PUBLIC
REGIONAL WATER PLANNING

Notice is hereby given that the Lavaca Regional Water Planning Group (Region P) will submit by 12pm February 21, 2017, a grant application for financial assistance to the Texas Water Development Board (TWDB) on behalf of Region P, to carry out planning activities to develop the 2021 Region P Regional Water Plan as part of the state's Fifth Cycle (2017 – 2021) of Regional Water Planning. It is anticipated that the application will be considered by the Texas Water Development Board at an upcoming board meeting.

The Lavaca Regional Water Planning Group (Region P) includes all or part of Jackson, Lavaca, and Wharton County.

Copies of the grant application may be obtained from LNRA when it becomes available or online at www.lnra.org. Written comments from the public regarding the grant application must be submitted to LNRA and TWDB by no later than March 1, 2017. Comments can be submitted to LNRA and TWDB as follows:

Patrick Brzozowski, P.E.
Secretary, Region P
Lavaca Navidad River Authority
P. O. Box 429
Edna, Texas 77957

Jeff Walker
Executive Administrator
Texas Water Development Board
P.O. Box 13231
Austin, Texas 78711-3231

For additional information, *please contact Patrick Brzozowski, Lavaca-Navidad River Authority, c/o Region P, P.O. Box 429, Edna, Texas 77957, (361) 782-5229, pbrzozowski@lnra.org. or David Carter, Texas Water Development Board, P.O. Box 13231, Austin, Texas 78711, Contracts@twdb.texas.gov.*