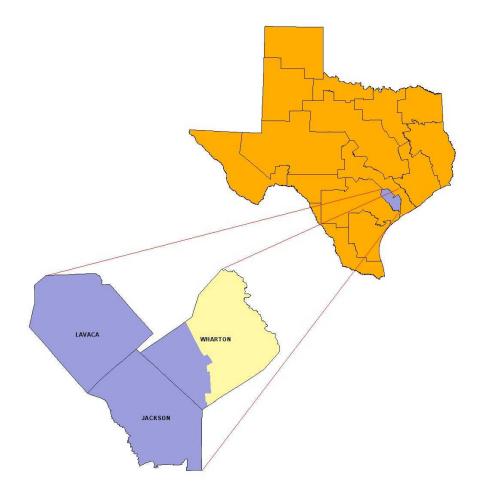
LAVACA REGIONAL PLANNING GROUP



APPLICATION TO THE TEXAS WATER DEVELOPMENT BOARD REQUESTING GRANT FUNDS TO DEVELOP A REGIONAL WATER PLAN FOR THE LAVACA REGIONAL WATER PLANNING AREA

June 2008

I. GENERAL INFORMATION

1. Legal name of applicant(s).

Lavaca-Navidad River Authority

2. Regional Water Planning Group:

Lavaca Regional Water Planning Group

3. Authority of law under which the applicant was created.

Lavaca-Navidad River Authority is a body politic and corporate created by the Texas Legislature and existing pursuant to article XVI, Section 59 of the Texas Constitution and a series of acts formerly compiled as Aricle 8280-131, Vernon's Annotated Texas Civil Statutes

4. Applicant's official representative, Name, Title, Mailing address, Phone number, Fax number, if available, E-mail Address, and Vendor ID Number.

Patrick Brzozowski, General Manager Lavaca-Navidad River Authority P.O. Box 429 Edna, Texas 77957-0429 Phone No. 361.782.5229 Fax No. 361.782.5310 Email info@Inra.org Vendor ID No. 74-1600109

5. Is this application in response to a Request for Proposals published in the <u>Texas</u> <u>Register</u>?

Yes XX No

6. If yes to No. 5 above, list document number and date of publication of the Texas Register.

Texas Register Document No. 200800727, published February 15, 2008

7. Total proposed planning cost.

| Base Funding: | \$97,500 |
|-----------------------|-----------|
| Supplemental Funding: | \$164,500 |
| Total Funding: | \$262,000 |

8. Cash Contribution to the study.

No funds are currently identified to assist with the proposed study.

- List source of cash contribution, explanation of source of local cash contribution.
 N/A
- 10. Total grant funds requested from the Texas Water Development Board.

| Base Funding: | \$97,500 |
|-----------------------|-----------|
| Supplemental Funding: | \$164,500 |
| Total Funding: | \$262,000 |

11. Detailed statement of the purpose for which the money will be used.

Funds are requested to produce a revised Regional Water Plan for the Lavaca Regional Water Planning Area (LRWPA). In addition to the basic tasks of compiling a complete Plan, additional items are proposed to further characterize water demands, evaluate existing management strategies to a higher degree, examine groundwater quality, and provide significant studies necessary to coordinate water supplies among Regions. Each individual task is explained in detail in *Appendix A*.

12. Detailed description of why state funding assistance is needed.

The cities in the region would normally be the candidates for providing local matches for area needs, but the needs of the cities for water supply are met throughout the 50-year planning horizon from the available groundwater supplies and are substantially less than the demands 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.

The Natural Resource Conservation Service matching funds for conservation improvements. Texas Water Development Board Ioan fund.

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.

- 1. Planning Area Description
- 2. Population and Water Demands
- 3. Water Supply Analysis
- 4. Identification, Evaluation, and Selection of Water Management Strategies Based on Needs
- 5. Impacts of Selected Water Management Strategies on Key Parameters of Water Quality and Impacts of Moving Water from Rural and Agricultural Area
- 6. Water Conservation and Drought Management Recommendations
- 7. Description of How the Regional Water Plan is Consistent with Long-Term Protection of the State's Water Resources and Natural Resources
- 8. Unique Stream Segments/Reservoir Sites/Legislative Recommendations
- 9. Report to Legislature on Water Infrastructure Funding Recommendations
- 10. Adoption of Plan
- 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.

Please see *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;

Securing funds for water projects in the Lavaca Region is especially difficult due to the way that the only unmet needs have been identified within agricultural users who are least capable of funding major projects. The completion of the proposed scope items will enable water users to identify long-term needs and locate sources of funding to secure the longevity of their water resources.

If a grant is awarded, written evidence that local matching funds are available for the proposed planning must be provided when the contract is executed.

Due to the reason given above, the Lavaca Regional Water Planning Group requests funds for this scope of work without local matching funds.

IV. PROOF OF NOTIFICATION

Proof of notification

Develop or revise regional water plans. Eligible applicants requesting funds to develop or revise regional water plans must, not less than 30 days before board consideration of the application, provide notice that an application for planning assistance is being filed with the executive administrator by:

- (1) publishing notice once in a newspaper of general circulation in each county located in whole or in part in the regional water planning area; and
- (2) mailing notice to each mayor of a municipality with a population of 1,000 or more or which is a county seat and that is located in whole or in part in the regional water planning area, to each county judge of a county located in whole or in part in the regional water planning area, to all districts and authorities created under Texas Constitution, Article III, §52, or Article XVI, §59, located in whole or in part in the regional water planning area based upon lists of such water districts and river authorities obtained from Texas Commission on Environmental Quality, and all regional water planning groups in the state.

The notice must include the following:

Name and address of applicant and applicant's official representative;

Brief description of proposed planning area;

Purpose of the proposed planning;

Texas Water Development Board Executive Administrator's name and address; and

Statement that any comments on the proposed planning must be filed with the applicant and the Texas Water Development Board Executive Administrator within 30 days of the date on which the notice was mailed.

The Lavaca-Navidad River Authority has complied with this requirement. Copies of the notices can be found in *Appendix F*.

APPENDIX A DETAILED SCOPE OF WORK

Task 0. Scope of Work Development

Tasks to be performed under Base Funding:

- 1. Develop schedule for submittal of draft documents to the Committee, to the RWPG as a whole, and to the TWDB.
- 2. Meet with RWPG to present timeline for preparation of Scope of Work and to establish Scoping Committee
- 3. Coordinate with TWDB on allowable tasks and subtasks to reduce uncertainty as much as possible.
- 4. Develop draft scoping document narrative for submission to the Scoping Committee for approval of overall tasks prior to beginning cost development.
- 5. Receive feedback from Scoping Committee and prepare draft scope narrative and estimated "ball park" cost estimates for review by Scoping Committee and RWPG
- 6. Revise narrative scope document based on feedback from Scoping Committee and RWPG and develop cost estimates for subtasks.
- 7. Submit task and subtask budgets, narrative scope, and completed grant application to Executive Committee for final approval.
- 8. Make any final modifications to scope document and grant application and prepare for LRWPG Chairman's approval and submittal to TWDB.

<u>Deliverables:</u> This completed application for grant funding serves as the deliverable for this scope item..

Task 1. Planning Area Description

Tasks to be performed under Base Funding:

- 1. Review listing of Water User Groups from this round with list from last round and include descriptions of any new WUGs.
- 2. Discuss current impacts on agriculture in the Region and major trends that influence production and, consequently, water demand.
- 3. Review TWDB listing of threatened and endangered species and their habitat and incorporate any changes since the listing from the last round.
- 4. Prepare and submit draft Chapter 1 to the LRWPG members and TWDB for review and approval.
- 5. Incorporate LRWPG and TWDB comments with associated recommended changes and seek approval for final draft of this chapter.

<u>Deliverables:</u> A completed Chapter 1 describing the LRWPA will be delivered in the 2011 RWP as a work product.

Task 2. Population and Water Demands

Tasks to be performed under base funding:

- 1. Prepare tables of population and water demands for RWPG approval, including revised agricultural demand projections from 1st Biennium efforts.
- 2. Prepare and submit draft chapter two to the LRWPG members and TWDB for review and approval.
- 3. Incorporate LRWPG and TWDB comments with associated recommended changes and seek approval for final draft of this chapter.

<u>Deliverables:</u> A completed Chapter 2 detailing revised population and water demands will be delivered in the 2011 RWP as a work product.

Tasks to be performed under supplemental funding:

- 1. Additional Population and Water Demand Tasks
 - a. Prepare correspondence to each of the WUGs concerning the proposed populations for this planning round. Provide suggestions concerning data to be gathered if the WUGs want to challenge these numbers now or in the next planning cycle after this one.
 - b. Discuss any requests for changes with the requestors and review data they currently have to determine whether it meets TWDB requirements to support a population change.
 - c. Submit recommendations to Executive Committee for approval of changes, if any.
 - d. Submit to TWDB for approval of draft numbers.
 - e. Incorporate all approved changes to database tables as appropriate.
 - f. Make changes as appropriate and provide final numbers to RWPG for approval.
- 2. New Demands for Wholesale Water Providers
 - a. Correspond with the LNRA to determine whether there are any recent or pending requests for service in their planning horizons.
 - b. Incorporate new requests for water into WWP demands.

<u>Deliverables:</u> The results of this analysis will be included in the completed Chapter 2 of the 2011 RWP.

Task 3. Water Supply Analysis

Tasks to be performed under base funding:

1. Revise water supply allocations to individual WUGs as necessary and update Chapter 3 of the Plan.

<u>Deliverables:</u> A completed Chapter 3 summarizing water supply projections will be delivered in the 2011 RWP as a work product.

Tasks to be performed under supplemental funding:

- 1. WWP Requests for Service
 - a. Correspond with the LNRA to determine whether there are any recent or pending requests for service in their planning horizons that may impact available water supplies.
 - b. Incorporate new requests for water into available water supplies.
 - c. Prepare revised tables for the 2011 Plan and for the TWDB database entries.
- 2. Develop Middle Gulf Coast Aquifer Revisions
 - a. Update groundwater availability in the middle Gulf Coast Aquifer area based on completed GAM model that was not available in time for the last planning round by applying appropriate regional planning criteria to a maximum of two GAM runs.
 - b. Review results of modeling performed for LCRA/SAWS project on groundwater in the area, as well as the review of that work that was performed by the Coastal Bend GCD, provided that Coastal Bend GCD is willing to share the results of that effort with the RWPG.
 - c. Meet with the Coastal Bend GCD, the Texana GCD, and the Lavaca GCD to review the GAM results and discuss other factors which might be included in the process of establishing revised availability numbers.
 - d. Meet with the LRWPG to review the proposed revisions and potential impacts to selected water management strategies.

e. Recommend final revisions to LRWPG of groundwater availability projections for each County using the middle Gulf Coast aquifer.

3. Groundwater Quality Investigation

Groundwater quality in the LRWPA has traditionally been of good quality. In the 2006 RWP, it was reported that some groundwater quality issues have been identified. In northern Lavaca County, these exceedences were found to be in elevated nitrite, manganese, and iron values. Levels of total dissolved solids (TDS) and the occurrence of salt water intrusion from either injected saline sources or pumpage of fresh water have been identified in wells throughout the LRWPA.

- a. Review available reports from TWDB, TCEQ, and USGS regarding groundwater quality in the LRWPA.
- b. Obtain groundwater quality records from LNRA and TCEQ. Compile a database of discrete samples associated with well locations in a GIS. Work with LNRA to solicit input regarding groundwater quality from well owners in the LRWPA.
- c. Compare database records to primary and secondary Maximum Contaminant Levels (MCLs) to identify "problem wells."
- d. Plot trends in containment readings for each of the "problem wells" identified.
- e. Review dates of water quality samples and determine overall levels of pumpage during the time the samples were obtained.
- f. Produce a GIS exhibit identifying the location of "problem wells" throughout the LRWPA.
- g. Briefly analyze data to determine whether there is an identifiable impact of pumpage on groundwater quality. In the event that there is insufficient data to support this analysis, identify data gaps that must be filled in order to perform the analysis if the analysis itself cannot be performed.
- h. Identify municipalities with water supplies in the vicinity of identified groundwater quality issues.
- i. Where possible, identify other water users in the immediate vicinity of areas with recorded groundwater issues.
- j. Use the available period of record for each "problem well" to project the decline in groundwater quality throughout the planning horizon.
- k. Prepare a summary section for Chapter 3 of the 2011 RWP to address groundwater quality concerns.
- 4. Inter-Regional Coordination to Develop Long-Term Water Supplies

It has come to the attention of the Planning Group that water demands in other neighboring Regions and the practicality of currently selected water management strategies have caused a demand for water resources within the Lavaca Regional Water Planning Area (LRWPA) at a time sooner than was originally expected. This task provides for coordination with these regions in an effort to maintain regional consistency.

- a. Meet with representatives and consultants of the Region L and Region N Water Planning Groups to discuss projected needs for water supplies within the LRWG.
- b. Brief the LRWPG on the status of out-of-Region water supply projects and recommend a course of action.
- c. Revise Chapter 3 of the Plan to include revised water supplies resulting from the projected implementation of water strategies by Regions L and N.
- d. Allocate the revised water supplies to LRWPG WUGs as necessary.

<u>Deliverables:</u> The results of these supplemental tasks will be included in Chapter 3 of the 2011 RWP along with a section summarizing the methodology and results.

Task 4. Identification, evaluation and selection of water management

strategies based on needs.

Tasks to be performed under base funding:

- 1. Submit revised chapter to LRWPG members and TWDB for review and approval.
- 2. Incorporate LRWPG and TWDB comments with associated recommended changes and seek approval for final draft of this chapter.

<u>Deliverables:</u> The completed Chapter 4 of the 2011 RWP will include the results of the tasks described above.

Tasks to be performed under supplemental funding:

- 1. Additional Water Management Strategy Tasks
 - a. Re-evaluate water management strategies for all WUGs with changed demands or reduced supplies as a result of the Task 2 and 3 revisions.
 - b. Re-confirm water management strategies for all WUGs by sending correspondence to each WUG outlining the proposed strategy for the 2011 Plan for that WUG.
 - c. Coordinate with Lavaca-Navidad River Authority and review any potential changes in environmental flow needs based on the publication of the 2006 Freshwater Inflow Needs Study, and other environmental flow requirements.
 - d. Perform an update of water management strategies capital costs to second quarter 2007 price levels for all strategies from the 2006 plan that will be carried over to the 2011 regional plan. This update will be performed for the majority of the strategies by updating the existing cost tables to the required construction price index.
 - e. Perform an update of water management strategies Operations and Maintenance (O&M) costs for strategies, as noted above, to be reflective of updated power and labor costs as well as annualized capital costs.
 - f. Revise Chapter 4 of the plan to include any new management strategies and the revised costs.
- 2. Determine impacts to the cost of Conjunctive Use of Groundwater strategy.
 - 1. Review Middle Gulf Coast Aquifer GAM to determine the impacts of Conjunctive Use of Groundwater strategy and develop costs for groundwater pumpage under extreme conditions.
 - 2. Compare costs to previous estimates and alterantive strategies in order to determine the potential for meeting shortages with Conjunctive Use.
 - 3. Recommend alternative strategies to Conjunctive Use as necessary based on costs.
 - 4. Revise text of Chapter 4 and other sections based on changes in strategy selection.
- 3. Evaluate revisions to Palmetto Bend Stage II strategy and determine the impacts of revised operation of Lake Texana.

Lake Texana provides an important water supply to industrial users within the LRWPG and municipal and industrial users within Regions L and N. Palmetto Bend Stage II represents a vital strategy to meet future shortages in Region N and is an alternative strategy for water supply within the LRWPG. Changes to the plans for expanding the reservoir and the way in which the current water supply is managed will have impacts on the future supplies of Regions P, L, and N.

- a. Evaluate Update Palmetto Bend Stage II Strategy
 - i. Adjust Palmetto Bend Stage II strategy to include the reservoir location identified by the legislative unique reservoir site designation.
 - ii. Update project yield and cost for Stage II as necessary.
 - iii. Account for water supplies required by Regions L and N through inter-regional coordination.

- iv. Adjust Chapter 4 of the Plan accordingly.
- b. Evaluate Impacts of the City of Corpus Christi's Garwood supply diversion through Lake Texana
 - i. Obtain the latest Full Diversion (Run 3) Water Availability Model (WAM) from TCEQ.
 - ii. Coordinate with Region N to determine the need for water from the Garwood source.
 - iii. Modify the WAM to model the conveyance of the Garwood water supply from its input at West Mustang Creek to diversion at the Palmetto Bend pump station.
 - iv. Use the modified WAM to evaluate the impact of the strategy on Lake Levels in Lake Texana and the reliability of water rights within the Lavaca River Basin.
 - v. Evaluate the impact of the strategy to water supplies and adjust management strategies for LRWPG WUGs, accordingly.
 - vi. Incorporate study into Chapter 4 as necessary.

<u>Deliverables:</u> The results of Supplemental Tasks A and B will be incorporated into the main document within Chapter 4 and other chapters where the results produced would be applicable.

Task 5. Impacts of selected water management strategies on key parameters of water quality and impacts of moving water from rural and agricultural areas.

Tasks to be performed under base funding:

- 1. Review and update information in plan for all strategies which have remained the same
- 2. Submit revised chapter to LRWPG members and TWDB for review and approval.
- 3. Incorporate LRWPG and TWDB comments with associated recommended changes and seek approval for final draft of this chapter.

Deliverables: Task 5 results will be summarized in 2011 RWP Chapter 5.

Tasks to be performed under supplemental funding:

- 1. Additional Water Management Strategy Impact Tasks
 - a. Provide recommendations for further work to better define the impact of lowered water tables and higher drafts on the aquifers in the LRWPG and the impact on water quality that such conditions will create.
 - b. Revise wording for Chapter 5 of the plan to include any new management strategies.
- 2. *Potential Changes to Aquifer Quality* Address potential changes to groundwater quality which might result from increased use of groundwater aquifers in the region.
 - a. Review quality information for all of the aquifers and determine which aquifers appear to have formations which include water that has higher dissolved solids concentrations.
 - b. Determine whether the models have enough information to make any general statements concerning water quality issues.
 - c. Prepare qualitative discussion of potential water quality impacts resulting from increased drawdown of aquifers in the region.
- 3. Potential Movement of the City of Corpus Christi's Garwood Supply In conjunction with Task 4 item, above.

The way in which Lake Texana would be used to convey water from the Corpus Christi's Garwood right may impact local irrigators who have the opportunity to divert interruptible supplies from the

reservoir when lake levels are above a certain threshold. In turn, these operating rules may impact the volume of water that can be successfully diverted through Lake Texana to Corpus Christi. This study aims to identify these impacts to both agricultural and municipal users.

- a. Determine the seasonal, municipal usage pattern of water from the Garwood supply and compare to the schedule of water diversion for irrigation to determine if these uses may coincide and may result in heightened lake levels at times when irrigators will choose to divert.
- b. Use the WAM Run 3 without Garwood flows to determine the median lake levels during the drought of record (DOR) without the Garwood diversion and determine the amount of divertible interruptible supply for rice irrigation.
- c. Execute the modified Run 3 with Garwood flows to determine median lake levels during the DOR with the Garwood diversion and determine the amount of divertible interruptible supply for rice irrigation.
- d. Determine what beneficial impacts the presence of the Garwood diversion will have on the ability of farmers to divert irrigation water on an interruptible basis and the impacts to downstream flows.
- e. Compare WAM results to determine the increase in spill frequency and volume from Lake Texana and determine what impacts this may have on the reliability of the Garwood diversion at the Palmetto Bend pump station.
- f. Include a summary section in Chapter 5 describing the impacts of this strategy on water supplies in the LRWPA.

<u>Deliverables:</u> The results of supplemental tasks will be incorporated into the main document within Chapter 5 and other chapters where the results produced would be applicable.

Task 6. Water conservation and drought management recommendations.

Tasks to be performed under base funding:

- 1. Survey for each WUG asking about water conservation measures implemented and measures planned, as well as any measured impacts of conservation and drought contingency practices which have already been implemented. Expand correspondence to include the issue of water accountability and inquire as to the performance of these systems and steps taken to increase accountability.
- 2. Compare information received from the survey versus information contained in the 2006 Plan to determine whether conservation management strategies in the plan have local support or warrant revision.
- 3. Review available data sources to determine how much land has already been modified for irrigation conservation purposes. Determine potential savings that may result from converting the remaining land to conserve irrigation water.
- 4. Review drought contingency plans received from each WUG to determine what measures are most commonly used and whether these measures have been recently implemented in response to drought conditions.
- 5. Determine whether there is any reliable information on the reduction in demands on individual WUG s caused by their implementation of drought contingency measures.
- 6. Revise wording for Chapter 6 of the plan to include any new management strategies.
- 7. Submit revised chapter to LRWPG members and TWDB for review and approval.
- 8. Incorporate LRWPG and TWDB comments with associated recommended changes and seek approval for final draft of this chapter.

<u>Deliverables:</u> The information gained form the study of water conservation measures, as described above, will be incorporated into the revised Chapter 6 of the 2011 RWP.

Tasks to be performed under supplemental funding:

- 1. Follow up letter survey with telephone call to those who do not respond within 30 days. Make at least three telephone calls to each non-responding WUG, or until response is received.
- 2. Review available TWDB data to determine the level of water savings which have been documented through implementation of drought contingency measures.
- 3. Document results of follow up calls and review of TWDB data in a technical memorandum to be included in the Appendix to the 2011 Regional Plan.

<u>Deliverables:</u> The additional supplemental tasks described here will be incorporated into the 2011 RWP Chapter 6 along with the other associated efforts described above.

Task 7. Description of how the regional water plan is consistent with long-term protection of the state's water resources and natural resources.

Tasks to be performed under base funding:

- 1. Update the current descriptions of water management strategies with any new strategies developed during this planning round, as well as any alternate strategies which are developed for specific WUGs with shortages which need additional flexibility.
- 2. Revise wording for Chapter 7 of the plan to include the new management strategies.
- 3. Submit revised chapter to LRWPG members and TWDB for review and approval.
- 4. Incorporate LRWPG and TWDB comments with associated recommended changes and seek approval for final draft of this chapter.

<u>Deliverables:</u> The results of the described Task 7 efforts will be incorporated into the 2011 RWP Chapter 7.

Task 8 Unique stream segments/reservoir sites/legislative recommendations

Tasks to be performed under base funding:

- 1. Convene LRWPG to review recommendations regarding unique stream segments, unique reservoirs, and legislative recommendations from last round.
- 2. Provide any updates of descriptions of reservoir projects and any changes in classifications in stream segments.
- 3. Revise wording for Chapter 8 of the plan to include the new management strategies.
- 4. Submit revised chapter to LRWPG members and to TWDB for review and approval.
- 5. Incorporate LRWPG and TWDB comments with associated recommended changes and seek approval for final draft of this chapter.

Deliverables: Updates as a result of these tasks will be incorporated into the 2011 RWP Chapter 8.

Task 9 Report to Legislature on Water Infrastructure Funding Recommendations.

Tasks to be performed under base and supplemental¹ funding:

- 1. Integrate WIF information request into conservation plan letter to individual WUGs.
- 2. Receive and collate information on infrastructure needs from individual WUGs and develop tables of total funds needed.
- 3. Revise wording for Chapter 9 of the plan to include the updated WIF funding needs.

¹ The LRWPG feels that the base funding allocated for this task is inadequate to properly update the RWP. For this reason, the Planning Group chooses to put forth these tasks contingent upon the acquisition of supplemental funds to fully fund the described efforts.

- 4. Submit revised chapter to LRWPG members and TWDB for review and approval.
- 5. Incorporate LRWPG and TWDB comments with associated recommended changes and seek approval for final draft of this chapter.

<u>Deliverables:</u> Water Infrastructure recommendations made from a survey of the LRWPA will be made in Chapter 9 of the 2011 RWP.

Task 10 Adoption of Plan

Tasks to be performed under base funding:

- A. *Public Participation for Planning Grant Process* Provision for public comment on the proposed scope of work, schedule of activities, and required budgets for the three remaining years of the third planning cycle.
 - 1. Provide public notification of LRWPG intent to apply for grant funding for the next three years of the third planning cycle.
 - 2. Make grant applications available to the general public throughout the LRWPA.
 - 3. Make presentations explaining the proposed grant funding for LRWPG in a public meeting.
 - 4. Incorporate changes requested by LRWPG as a result of public comments.
- B. *Periodic Meetings of the LRWPG* Technical support and participation of the regular and special called meetings of the LRWPG.
 - 1. Participate in approximately 12 regular meetings of the LRWPG
 - 2. Participate in developing agendas, arranging speakers, and coordinating activities for the LRWPG.
 - 3. Develop presentations and handout materials for the regular and special meetings to provide technical and explanatory data to the LRWPG and its subcommittees.
- C. *Required Public Meetings* Provide technical support and participate in three required public meetings for:
 - a. Receiving input on draft water demand calculations for applicable water user groups in the region.
 - b. Receiving input on the selected water management strategies.
 - c. Receiving input on the draft 2011 Regional Water Plan.
 - 1. Provide notice for the three public meetings.
 - 2. Develop presentations and handout materials for the public meetings to provide to the general public.
 - 3. Provide draft responses for RWPG approval to any questions that are asked at the public meetings.
- D. Administrative Support
 - 1. Prepare and submit invoices to the LNRA for work performed for the RWPG and provide consultant's status report for each meeting.
 - 2. Maintain lists of contacts for regional planning information in the region, coordinated with Karen Gregory at LNRA.
 - 3. Attend and prepare presentation and handout materials for public meetings in various locations of the region to solicit input on the draft LRWPG Regional Plan.
 - 4. Prepare report section summarizing Task 10 activities.
 - 5. Prepare and transmit correspondence once LRWPG approval of draft responses is obtained.

<u>Deliverables:</u> Deliverables from the task will include properly prepared notices of action by the Planning Group, minutes of public meetings and hearings, and a summary of all associated efforts in Chapter 10 of the 2011 RWP.

APPENDIX B TASK BUDGET

| | 1 | Task | (| Task Description | FY | 2008-09 | FY | 2010-11 | | TOTAL |
|---|---|------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|------------------|-------------|--------------------|------------------------|
| 0 | 1 | | | Scope of Work Development | \$ | 10,000 | \$ | - | \$ | 10,000 |
| - | 1 | | | Develop schedule for submittal of draft documents to the Committee, to the RWPG as a whole, and to the TWDB. | \$ | 700 | \$ | - | \$ | 700 |
| | 2 | | | Meet with RWPG to present timeline for preparation of Scope of Work and to establish Scoping Committee | \$ | 1,300 | \$ | - | \$ | 1,300 |
| | 3 | | | Coordinate with TWDB on allowable tasks and subtasks to reduce uncertainty as much as possible. | \$ | 1,300 | \$ | - | \$ | 1,300 |
| | 4 | | | Develop draft scoping document narrative for submission to the Scoping Committee for approval of overall tasks prior to beginning cost development. | \$ | 2,000 | \$ | - | \$ | 2,000 |
| | 5 | | | Receive feedback from Scoping Committee and prepare draft scope narrative and estimated "ball park" cost estimates for review by Scoping Committee and RWPG | \$ | 1,600 | \$ | - | \$ | 1,600 |
| | 6 | | | Revise narrative scope document based on feedback from Scoping Committee and RWPG and develop cost estimates for subtasks. | \$ | 900 | \$ | - | \$ | 900 |
| | 7 | | | Submit task and subtask budgets, narrative scope, and completed grant application to Executive Committee for final approval. | \$ | 1,300 | \$ | - | \$ | 1,300 |
| | 8 | | | Make any final modifications to scope document and grant application and prepare for LRWPG Chairman's approval and submittal to TWDB. | \$ | 900 | \$ | - | \$ | 900 |
| 1 | | | | Planning Area Description | \$ | 10,000 | \$ | - | \$ | 10,000 |
| _ | 1 | | | Review listing of Water User Groups from this round with list from last round and include | \$ | 2,500 | \$ | _ | \$ | 2,500 |
| | | | | descriptions of any new WUGs. Discuss current impacts on agriculture in the Region and major trends that influence | | | | - | - | |
| _ | 2 | | | production and, consequently, water demand. Review TWDB listing of threatened and endangered species and their habitat and | \$ | 2,200 | | - | \$ | 2,200 |
| _ | 3 | | | incorporate any changes since the listing from the last round. Prepare and submit draft Chapter 1 to the LRWPG members and TWDB for review and | \$ | 1,800 | \$ | - | \$ | 1,800 |
| | 4 | | | approval. Incorporate LRWPG and TWDB comments with associated recommended changes and | \$ | 2,400 | | - | \$ | 2,400 |
| 2 | 5 | | | seek approval for final draft of this chapter. | \$ ¢ | 1,100 | | - | \$ | 1,100 11.500 |
| 2 | А | | | Population and Water Demands Base Funding | \$ \$ | <u>11,500</u> 1,700 | \$ | - | \$ \$ | 11,500 |
| | A | 1 | | Prepare tables of population and water demands for RWPG approval, including revised | » Տ | 600 | > Տ | - | م \$ | 600 |
| _ | _ | | | agricultural demand projections from 1st Biennium efforts. Prepare and submit draft chapter two to the LRWPG members and TWDB for review | Գ \$ | | | - | э \$ | |
| | | 2 | | and approval. Incorporate LRWPG and TWDB comments with associated recommended changes and | ծ \$ | 800 | \$ | - | э \$ | 800 |
| | | 3 | | seek approval for final draft of this chapter. | \$ | 300 | \$ | - | \$ | 300 |
| | В | | | Suplemental Funding | \$ | 9,800 | \$ | - | \$ | 9,800 |
| | | 1 | | Additional Population and Water Demand Tasks | \$ | 7,500 | \$ | - | \$ | 7,500 |
| | | | а | Prepare correspondence to each of the WUGs concerning the proposed populations for this planning round. Provide suggestions concerning data to be gathered if the WUGs want to challenge these numbers now or in the next planning cycle after this one. | \$ | 1,500 | \$ | - | \$ | 1,500 |
| | | | b | Discuss any requests for changes with the requestors and review data they currently have to determine whether it meets TWDB requirements to support a population change. | \$ | 1,600 | \$ | - | \$ | 1,600 |
| | | | С | Submit recommendations to Executive Committee for approval of changes, if any. | \$ | 1,800 | | - | \$ | 1,800 |
| | | | d | Submit to TWDB for approval of draft numbers. | \$ | 300 | | - | \$ | 300 |
| | | | e f | Incorporate all approved changes to database tables as appropriate. Make changes as appropriate and provide final numbers to RWPG for approval. | \$ \$ | 900 1,400 | | - | \$ \$ | 900 |
| _ | | 2 | 1 | New Demands for Wholesale Water Providers | э \$ | 2,300 | э \$ | - | \$ \$ | 2,300 |
| | | | а | Correspond with the LNRA to determine whether there are any recent or pending requests for service in their planning horizons. | \$ | 500 | | - | \$ | 500 |
| | | | b | Incorporate new requests for water into WWP demands. | \$ | 1,800 | \$ | - | \$ | 1,800 |
| 3 | | | | Water Supply Analysis | \$ | 19,900 | \$ | 41,500 | \$ | 61,400 |
| _ | Α | 1 | | Base Funding Revise water supply allocations to individual WUGs as necessary and update Chapter 3 | \$ \$ | 1,500 800 | | - | \$ | 1,500 800 |
| | | | | of the Plan. | | | | _ | | |
| | в | 2 | | Prepare revised tables for the 2011 Plan and for the TWDB database entries. Supplemental Funding | \$ \$ | 700 18,400 | | - 41,500 | \$ \$ | 700 59,900 |
| | В | 1 | | WWP Requests for Service | э \$ | 600 | · · | 41,500 | ə \$ | <u>59,900</u> 600 |
| | | | а | Correspond with the LNRA to determine whether there are any recent or pending requests for service in their planning horizons that may impact available water supplies. | \$ | 300 | | - | \$ | 300 |
| | | | b | Incorporate new requests for water into available water supplies. | \$ | 300 | \$ | - | \$ | 300 |
| | | 2 | | Develop Middle Gulf Coast Aquifer Revisions | \$ | 9,800 | | - | \$ | 9,800 |
| | | | а | Update groundwater availability in the middle Gulf Coast Aquifer area based on completed GAM model that was not available in time for the last planning round by | \$ | 2,800 | \$ | - | \$ | 2,800 |
| | | | b | applying appropriate regional planning criteria to a maximum of two GAM runs. Review results of modeling performed for LCRA/SAWS project on groundwater in the area, as well as the review of that work that was performed by the Coastal Bend GCD, provided that Coastal Bend GCD is willing to share the results of that effort with the RWPG. | \$ | 1,300 | \$ | - | \$ | 1,300 |
| | | | с | Meet with the Coastal Bend GCD, the Texana GCD, and the Lavaca GCD to review the GAM results and discuss other factors which might be included in the process of establishing revised availability numbers. | \$ | 2,200 | \$ | - | \$ | 2,200 |
| | | | d | Meet with the LRWPG to review the proposed revisions and potential impacts to selected water management strategies. | \$ | 2,400 | \$ | - | \$ | 2,400 |
| | | | | | | | | | | |
| | | | е | Recommend final revisions to LRWPG of groundwater availability projections for each County using the middle Gulf Coast aquifer. | \$ | 1,100 | \$ | - | \$ | 1,100 |

| | | Tasl | (| | Task Description | FY 2008-09 | | FY 2010-11 | | TOTAL |
|---|---|------|---|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------|------------|----------|-----------------------|
| | | | а | | Review available reports from TWDB, TCEQ, and USGS regarding groundwater quality in the LRWPA. | \$ | - \$ | 2,500 | \$ | 2,500 |
| | | | b | | Obtain groundwater quality records form LNRA and TCEQ. Compile a database of discrete samples associated with well locations in a GIS. Work with LNRA to solicit input regarding groundwater quality from well owners in the LRWPA. | \$ | - \$ | 6,800 | \$ | 6,800 |
| | | | с | | Compare database records to primary and secondary Maximum Contaminant Levels (MCLs) to identify "problem wells." | \$ | - \$ | 3,400 | \$ | 3,400 |
| | | | d | | Plot trends in containment readings for each of the "problem wells" identified. | \$ | - \$ | 3,100 | \$ | 3,100 |
| | | | е | | Review dates of water quality samples and determine overall levels of pumpage during the time the samples were obtained. | \$ | - \$ | 2,700 | \$ | 2,700 |
| | | | f | | Produce a GIS exhibit identifying the location of "problem wells" throughout the LRWPA. | \$ | - \$ | 3,800 | \$ | 3,800 |
| | | | g | | Briefly analyze data to determine whether there is an identifiable impact of pumpage on groundwater quality. In the event that there is insufficient data to support this analysis, identify data gaps that must be filled in order to perform the analysis if the analysis itself cannot be performed. | \$ | - \$ | 2,700 | \$ | 2,700 |
| | | | h | | Identify municipalities with water supplies in the vicinity of identified groundwater quality issues. | \$ | - \$ | 2,000 | \$ | 2,000 |
| | | | i | | Where possible, identify other water users in the immediate vicinity of areas with recorded groundwater issues. | \$ | - \$ | 3,100 | \$ | 3,100 |
| | | | i | | Use the available period of record for each "problem well" to project the decline in | \$ | - \$ | 3,600 | \$ | 3,600 |
| | | | | | groundwater quality throughout the planning horizon. Prepare a summary section for Chapter 3 of the 2011 RWP to address groundwater | | - | | - | , |
| | | 4 | k | - | quality concerns. Inter-Regional Coordination to Develop Long-Term Water Supplies | \$ \$ 8,00 | -\$ 2\$ | | \$ | 7,800 <i>8,000</i> |
| | | 4 | а | | Meet with representatives and consultants of the Region L and Region N Water Planning | \$ 3,20 | | | ې \$ | 3,200 |
| | | | | | Groups to discuss projected needs for water supplies within the LRWG. Brief the LRWPG on the status of out-of-Region water supply projects and recommend a | • -, - | - | | | , |
| | | | b | | course of action. Revise Chapter 3 of the Plan to include revised water supplies resulting from the | \$ 2,20 |)\$ | - | \$ | 2,200 |
| | | | с | | projected implementation of water strategies by Regions L and N. | \$ 1,30 |) \$ | - | \$ | 1,300 |
| | | | d | | Allocate the revised water supplies to LRWPG WUGs as necessary. Identification, Evaluation, And Selection Of Water Management | \$ 1,30 | | | \$ | 1,300 |
| 4 | | | | | Strategies Based On Needs | \$ 33,700 |)\$ | 5 10,000 | \$ | 43,700 |
| | Α | 1 | | | Base Funding Submit revised chapter to LRWPG members and TWDB for review and approval. | \$ 1,40 \$ 80 | | | 9 | 1,400 800 |
| | | 2 | | | Incorporate LRWPG and TWDB comments with associated recommended changes and | \$ 60 | | | \$ \$ | 600 |
| | в | | | | seek approval for final draft of this chapter. Supplemental Funding | \$ 32,30 | | | \$ | 42,300 |
| | | 1 | | | Additional Water Management Strategy Tasks | \$ 6,80 |)\$ | - | \$ | 6,800 |
| | | | а | | Re-confirm water management strategies for all WUGs by sending correspondence to each WUG outlining the proposed strategy for the 2011 Plan for that WUG. | \$ 1,30 |) \$ | - | \$ | 1,300 |
| | | | b | | Re-evaluate water management strategies for all WUGs with changed demands or reduced supplies as a result of the Task 2 and 3 revisions. | \$ 60 | \$ | - | \$ | 600 |
| | | | с | | Coordinate with Lavaca-Navidad River Authority and review any potential changes in environmental flow needs based on the publication of the 2006 Freshwater Inflow Needs Study, and other environmental flow requirements. | \$ 60 |)\$ | - | \$ | 600 |
| | | | d | | Perform an update of water management strategies capital costs to second quarter 2007 price levels for all strategies from the 2006 plan that will be carried over to the 2011 regional plan. This update will be performed for the majority of the strategies by updating the existing cost tables to the required construction price index. | \$ 70 |) \$ | - | \$ | 700 |
| | | | е | | Perform an update of water management strategies Operations and Maintenance (O&M) costs for strategies, as noted above, to be reflective of updated power and labor costs as well as annualized capital costs. | \$ 1,90 |)\$ | - | \$ | 1,900 |
| | | | f | | Revise Chapter 4 of the plan to include any new management strategies and the revised costs. | \$ 1,70 |) \$ | - | \$ | 1,700 |
| | | 2 | | | Determine impacts to the cost of Conjunctive Use of Groundwater strategy. | \$ | - \$ | 10,000 | \$ | 10,000 |
| | | | а | | Review Middle Gulf Coast Aquifer GAM to determine the impacts of Conjunctive Use of Groundwater strategy and develop costs for groundwater pumpage under extreme conditions. | \$ | - \$ | 6,300 | \$ | 6,300 |
| | | | b | | Compare costs to previous estimates and alterantive strategies in order to determine the potential for meeting shortages with Conjunctive Use. | \$ | - \$ | 800 | \$ | 800 |
| | | | с | | Recommend alternative strategies to Conjunctive Use as necessary based on costs. | \$ | - \$ | 1,600 | \$ | 1,600 |
| | | | d | - | Revise text of Chapter 4 and other sections based on changes in strategy selection. | \$ | - \$ | 1,300 | \$ | 1,300 |
| | | 3 | | | Evaluate revisions to Palmetto Bend Stage II strategy and determine the impacts of revised operation of Lake Texana. | \$ 25,50 | o \$ | - | \$ | 25,500 |
| | | | а | | Evaluate and Update Palmetto Bend Stage II Strategy | \$ 4,20 |) \$ | - | \$ | 4,200 |
| | | | | i | Adjust Palmetto Bend Stage II strategy to include the reservoir location identified by the legislative unique reservoir site designation. | \$ 90 | \$ | - | \$ | 900 |
| | | | | ii | Update project yield and cost for Stage II as necessary. | \$ 1,70 |) \$ | - | \$ | 1,700 |
| | | | | iii | Account for water supplies required by Regions L and N through inter-regional coordination. | \$ 70 | | | \$ | 700 |
| _ | | | | iv | Adjust Chapter 4 of the Plan accordingly. Evaluate Impacts of the City of Corpus Christi's Garwood supply diversion through Lake | |) \$ | | \$ | 900 |
| | | | b | | Texana Texana | \$ 21,30 |)\$ | - | \$ | 21,300 |
| | | | | i | Obtain the latest Full Diversion (Run 3) Water Availability Model (WAM) from TCEQ. | \$ 60 | \$ | - | \$ | 600 |
| | | | | ii | Coordinate with Region N to determine the need for water from the Garwood source. | \$ 1,80 |) \$ | - | \$ | 1,800 |

| | | Tasł | C | | Task Description | FY | 2008-09 | FY | 2010-11 | - | TOTAL |
|---|---|------|---|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------|----|---------|----|--------|
| | | | | iii | Modify the WAM to model the conveyance of the Garwood water supply from its input at West Mustang Creek to diversion at the Palmetto Bend pump station. | \$ | 3,400 | \$ | - | \$ | 3,400 |
| | | | | iv | Use the modified WAM to evaluate the impact of the strategy on Lake Levels in Lake Texana and the reliability of water rights within the Lavaca River Basin. | \$ | 5,600 | \$ | - | \$ | 5,600 |
| | | | | v | Evaluate the impact of the strategy to water supplies and adjust management strategies for LRWPG WUGs, accordingly. | \$ | 6,900 | \$ | - | \$ | 6,900 |
| | | | | vi | Incorporate study into Chapter 4 as necessary. | \$ | 3,000 | \$ | | \$ | 3,000 |
| 5 | | | | | Impacts Of Selected Water Management Strategies On Key Parameters Of Water Quality And Impacts Of Moving Water From | \$ | 6,200 | \$ | 34,700 | \$ | 40,900 |
| | A | | | | Rural And Agricultural Areas Base Funding | \$ | 1,700 | \$ | - | \$ | 1,700 |
| | | 1 | | | Review and update information in plan for all strategies which have remained the same | \$ | 600 | \$ | - | \$ | 600 |
| | | 2 | | | Submit revised chapter to LRWPG members and TWDB for review and approval. | \$ | 800 | \$ | - | \$ | 800 |
| | | 3 | | | Incorporate LRWPG and TWDB comments with associated recommended changes and seek approval for final draft of this chapter. | \$ | 300 | \$ | - | \$ | 300 |
| | в | | | | Supplemental Funding | \$ | 4,500 | \$ | 34,700 | \$ | 39,200 |
| | | 1 | | | Additional Water Management Strategy Impact Tasks Provide recommendations for further work to better define the impact of lowered water | \$ | 4,500 | \$ | - | \$ | 4,500 |
| | | | а | | tables and higher drafts on the aquifers in the LRWPG and the impact on water quality that such conditions will create. | \$ | 2,500 | \$ | - | \$ | 2,500 |
| | | | b | | Poviso wording for Chapter 5 of the plan to include any new management strategies | \$ | 2,000 | \$ | - | \$ | 2,000 |
| | | 2 | | | Revise wording for Chapter 5 of the plan to include any new management strategies. Potential Changes to Aquifer Quality | \$ | | \$ | 5,700 | \$ | 5,700 |
| | | | | | Poview quality information for all of the equifore and determine which equifore encourts | 6 | | ¢ | 2 200 | ¢ | 2 200 |
| | | | а | | Review quality information for all of the aquifers and determine which aquifers appear to have formations which include water that has higher dissolved solids concentrations. | \$ | - | \$ | 3,200 | \$ | 3,200 |
| | | | b | | Determine whether the models have enough information to make any general statements concerning water quality issues. | \$ | - | \$ | 700 | \$ | 700 |
| | | | с | | Prepare qualitative discussion of potential water quality impacts resulting from increased drawdown of aquifers in the region. | \$ | - | \$ | 1,800 | \$ | 1,800 |
| | | 3 | | | Potential Movement of the City of Corpus Christi's Garwood Supply | \$ | - | \$ | 29,000 | \$ | 29,000 |
| | | | а | | Determine the seasonal, municipal usage pattern of water from the Garwood supply and compare to the schedule of water diversion for irrigation to determine if these uses may coincide and may result in heightened lake levels at times when irrigators will choose to | \$ | - | \$ | 2,600 | \$ | 2,600 |
| | | | b | | divert. Use the WAM Run 3 without Garwood flows to determine the median lake levels during the drought of record (DOR) without the Garwood diversion and determine the amount of | \$ | | \$ | 5,400 | \$ | 5,400 |
| | | | | | divertible interruptible supply for rice irrigation. Execute the modified Run 3 with Garwood flows to determine median lake levels during | | | - | | - | , |
| | | | с | | the DOR with the Garwood diversion and determine the amount of divertible interruptible supply for rice irrigation. Determine what beneficial impacts the presence of the Garwood diversion will have on | \$ | - | \$ | 6,900 | \$ | 6,900 |
| | | | d | | the ability of farmers to divert irrigation water on an interruptible basis and the impacts to downstream flows. Compare WAM results to determine the increase in spill frequency and volume from | \$ | - | \$ | 4,500 | \$ | 4,500 |
| | | | e | | Lake Texana and determine what impacts this may have on the reliability of the Garwood diversion at the Palmetto Bend pump station. | \$ | - | \$ | 4,500 | \$ | 4,500 |
| | | | f | | Include a summary section in Chapter 5 describing the impacts of this strategy on water supplies in the LRWPA. | \$ | - | \$ | 5,100 | \$ | 5,100 |
| 6 | | | | | Water Conservation And Drought Management Recommendations | \$ | 10,000 | \$ | 8,000 | \$ | 18,000 |
| | Α | | | | Base Funding | \$ | 10,000 | \$ | - | \$ | 10,000 |
| | | 1 | | | Survey for each WUG asking about water conservation measures implemented and measures planned, as well as any measured impacts of conservation and drought contingency practices which have already been implemented. Expand correspondence to include the issue of water accountability and inquire as to the performance of these systems and steps taken to increase accountability. | \$ | 1,400 | \$ | - | \$ | 1,400 |
| | | 2 | | | Compare information received from the survey versus information contained in the 2006 Plan to determine whether conservation management strategies in the plan have local support or warrant revision. | \$ | 1,100 | \$ | - | \$ | 1,100 |
| | | 3 | | | Review available data sources to determine how much land has already been modified for irrigation conservation purposes. Determine potential savings that may result from converting the remaining land to conserve irrigation water. | \$ | 2,500 | \$ | - | \$ | 2,500 |
| | | 4 | | | Review drought contingency plans received from each WUG to determine what measures are most commonly used and whether these measures have been recently implemented in response to drought conditions. | \$ | 1,100 | \$ | - | \$ | 1,100 |
| | | 5 | | | Determine whether there is any reliable information on the reduction in demands on individual WUG s caused by their implementation of drought contingency measures. | \$ | 1,100 | \$ | - | \$ | 1,100 |
| | | 6 | | | Revise wording for Chapter 6 of the plan to include any new management strategies. | \$ | 1,000 | \$ | - | \$ | 1,000 |
| | | 7 | | | Submit revised chapter to LRWPG members and TWDB for review and approval. | \$ | 1,100 | \$ | | \$ | 1,100 |
| | | 8 | | | Incorporate LRWPG and TWDB comments with associated recommended changes and | \$ | 700 | \$ | - | \$ | 700 |
| | в | | | | seek approval for final draft of this chapter. Supplemental Funding | \$ | - | \$ | 8,000 | \$ | 8,000 |
| | | 1 | | | Follow up letter survey with telephone call to those who do not respond within 30 days. Make at least three telephone calls to each non-responding WUG, or until response is received. | \$ | - | \$ | 2,400 | \$ | 2,400 |

| | 1 | Task | (| Task Description | F | Y 2008-09 | F۱ | <u>í 2010-11</u> | | TOTAL |
|------|-------|------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|-----|------------------|----------------|-------------------------|
| | | 2 | | Review available TWDB data to determine the level of water savings which have been | \$ | | \$ | 2,700 | \$ | 2,700 |
| | | 2 | | documented through implementation of drought contingency measures. | φ | - | φ | 2,700 | φ | 2,700 |
| | | 3 | | Document results of follow up calls and review of TWDB data in a technical memorandum to be included in the Appendix to the 2011 Regional Plan. | \$ | - | \$ | 2,900 | \$ | 2,900 |
| | | | | Description Of How The Regional Water Plan Is Consistent With | | | | | | |
| 7 | | | | Long-Term Protection Of The State'S Water Resources And Natural | \$ | 8,000 | \$ | - | \$ | 8,000 |
| | | | | Resources | | | | | | |
| | | | | I Indote the surrent descriptions of water management strategies with any new strategies | | | | | | |
| | 1 | | | Update the current descriptions of water management strategies with any new strategies developed during this planning round, as well as any alternate strategies which are | \$ | 2,300 | \$ | - | \$ | 2,300 |
| | | | | developed for specific WUGs with shortages which need additional flexibility. | | | | | | |
| | 2 | | | | \$ | 1,800 | \$ | - | \$ | 1,800 |
| | 3 | | | Revise wording for Chapter 7 of the plan to include the new management strategies. Submit revised chapter to LRWPG members and TWDB for review and approval. | ¢ \$ | | \$ | | \$ | |
| | | | | Incorporate LRWPG and TWDB comments with associated recommended changes and | | 1,700 | | - | | 1,700 |
| | 4 | | | seek approval for final draft of this chapter. | \$ | 2,200 | \$ | - | \$ | 2,200 |
| 8 | | | | Unique Stream Segments / Reservoir Sites / Legislative | \$ | 11,000 | \$ | _ | \$ | 11,000 |
| 0 | | | | Recommendations | Ψ | 11,000 | Ψ | - | Ψ | 11,000 |
| | 1 | | | Convene LRWPG to review recommendations regarding unique stream segments, unique reservoirs, and legislative recommendations from last round. | \$ | 2,700 | \$ | - | \$ | 2,700 |
| | | | | Provide any updates of descriptions of reservoir projects and any changes in | | | | | | |
| | 2 | | | classifications in stream segments. | \$ | 1,700 | \$ | - | \$ | 1,700 |
| | 3 | | | | \$ | 1,700 | \$ | - | \$ | 1,700 |
| | 4 | | | Revise wording for Chapter 8 of the plan to include the new management strategies. Submit revised chapter to LRWPG members and to TWDB for review and approval. | \$ | 3,300 | \$ | | \$ | 3,300 |
| | | | | Incorporate LRWPG and TWDB comments with associated recommended changes and | φ \$ | | | - | | |
| | 5 | | | seek approval for final draft of this chapter. | \$ | 1,600 | \$ | - | \$ | 1,600 |
| 9 | | | | Report To Legislature On Water Infrastructure Funding | \$ | 5,500 | \$ | - | \$ | 5,500 |
| Ŭ | | | | Recommendations | - | - | - | | | - |
| | 1 | | | Integrate WIF information request into conservation plan letter to individual WUGs. Receive and collate information on infrastructure needs from individual WUGs and | \$ | 1,300 | \$ | - | \$ | 1,300 |
| | 2 | | | develop tables of total funds needed. | \$ | 900 | \$ | - | \$ | 900 |
| | 3 | | | Revise wording for Chapter 9 of the plan to include the updated WIF funding needs. | \$ | 400 | \$ | - | \$ | 400 |
| | 4 | | | Submit revised chapter to LRWPG members and TWDB for review and approval. | \$ | 2,000 | \$ | - | \$ | 2,000 |
| | 5 | | | Incorporate LRWPG and TWDB comments with associated recommended changes and seek approval for final draft of this chapter. | \$ | 900 | \$ | - | \$ | 900 |
| 10 | | | | Adoption of Plan | \$ | 42,000 | \$ | - | \$ | 42,000 |
| | Α | | | Public Participation for Planning Grant Process | \$ | 6,100 | \$ | - | \$ | 6,100 |
| | | 1 | | Provide public notification of LRWPG intent to apply for grant funding for the next three | \$ | 1,300 | \$ | - | \$ | 1,300 |
| | | 2 | | years of the third planning cycle. Make grant applications available to the general public throughout the LRWPA. | \$ | 700 | \$ | - | \$ | 700 |
| | | | | Make presentations explaining the proposed grant funding for LRWPG in a public | | | | | | |
| | | 3 | | meeting. | \$ | 2,700 | | - | \$ | 2,700 |
| | в | 4 | | Incorporate changes requested by LRWPG as a result of public comments. | \$ \$ | 1,400 19,900 | | | \$ \$ | 1,400 |
| | D | 1 | | Periodic Meetings of the Region LRWPG Participate in approximately 12 regular meetings of the LRWPG | , | 17,300 | · · | | թ \$ | 19,900 17,300 |
| | | 2 | | Participate in developing agendas, arranging speakers, and coordinating activities for the | \$ | 1,300 | \$ | - | \$ | 1,300 |
| | | 4 | | LRWPG. | ψ | 1,300 | φ | - | ψ | 1,300 |
| | | 3 | | Develop presentations and handout materials for the regular and special meetings to provide technical and explanatory data to the LRWPG and its subcommittees. | \$ | 1,300 | \$ | - | \$ | 1,300 |
| | С | | | Required Public Meetings | \$ | 4,800 | \$ | | \$ | 4,800 |
| | | 1 | | Provide notice for the three public meetings. | \$ | 1,500 | \$ | - | \$ | 1,500 |
| | | 2 | | Develop presentations and handout materials for the public meetings to provide to the | \$ | 1,800 | \$ | - | \$ | 1,800 |
| | | | | general public. Provide draft responses for RWPG approval to any questions that are asked at the public | - | | | | - | |
| | | 3 | | meetings. | \$ | 1,500 | \$ | - | \$ | 1,500 |
| | D | | | Administrative Support | \$ | 11,200 | \$ | - | \$ | 11,200 |
| | | 1 | | Prepare and submit invoices to the LNRA for work performed for the RWPG and provide consultant's status report for each meeting. | \$ | 1,600 | \$ | - | \$ | 1,600 |
| | | _ | | Maintain lists of contacts for regional planning information in the region, coordinated with | ¢ | | | | ¢ | |
| | | 2 | | Karen Gregory at LNRA. | \$ | 400 | \$ | - | \$ | 400 |
| | | 3 | | Attend and prepare presentation and handout materials for public meetings in various | \$ | 7,600 | \$ | - | \$ | 7,600 |
| | | 4 | | locations of the region to solicit input on the draft LRWPG Regional Plan. Prepare report section summarizing Task 10 activities. | ¢ \$ | 900 | \$ | | \$ | 900 |
| | | | | Prepare report section summarizing Task To activities. Prepare and transmit correspondence once LRWPG approval of draft responses is | | | | - | | |
| | | 5 | | obtained. | \$ | 700 | \$ | - | \$ | 700 |
| Tota | al Fi | unds | 5 | | \$ | 167,800 | \$ | 94,200 | \$ | 262,000 |

APPENDIX C EXPENSE BUDGET

| Category | Tot | Total Amount | | | |
|-------------------------------|-----|--------------|--|--|--|
| Salaries & Wages ¹ | \$ | 3,030 | | | |
| Fringe ² | \$ | 1,588 | | | |
| Travel | \$ | - | | | |
| Other Expenses ³ | \$ | - | | | |
| Subcontract Services | \$ | - | | | |
| Overhead ⁴ | \$ | 3,385 | | | |
| Profit | \$ | 1,997 | | | |
| Total | \$ | 10,000 | | | |

Task 0 – Scope of Work Development Base Funding

Task 1 – Planning Area Description Base Funding

| Category | Total Amount | | | |
|-------------------------------|--------------|--------|--|--|
| Salaries & Wages ¹ | \$ | 2,970 | | |
| Fringe ² | \$ | 1,556 | | |
| Travel | \$ | - | | |
| Other Expenses ³ | \$ | 200 | | |
| Subcontract Services | \$ | - | | |
| Overhead ⁴ | \$ | 3,317 | | |
| Profit | \$ | 1,957 | | |
| Total | \$ | 10,000 | | |

Task 2A – Population and Water Demand Development Base Funding

| Category | Tota | al Amount |
|-------------------------------|------|-----------|
| Salaries & Wages ¹ | \$ | 455 |
| Fringe ² | \$ | 238 |
| Travel | \$ | - |
| Other Expenses ³ | \$ | 200 |
| Subcontract Services | \$ | - |
| Overhead ⁴ | \$ | 508 |
| Profit | \$ | 299 |
| Total | \$ | 1,700 |

| Category | Tota | al Amount |
|-------------------------------|------|-----------|
| Salaries & Wages ¹ | \$ | 2,970 |
| Fringe ² | \$ | 1,556 |
| Travel | \$ | - |
| Other Expenses ³ | \$ | - |
| Subcontract Services | \$ | - |
| Overhead ⁴ | \$ | 3,317 |
| Profit | \$ | 1,957 |
| Total | \$ | 9,800 |

Task 2B – Population and Water Demand Development Supplemental Funding Additional Population and Water Demand Tasks

Task 3A – Water Supply Analysis Base Funding

| Category | Tota | Total Amount | | | |
|-------------------------------|------|--------------|--|--|--|
| Salaries & Wages ¹ | \$ | 455 | | | |
| Fringe ² | \$ | 238 | | | |
| Travel | \$ | - | | | |
| Other Expenses ³ | \$ | - | | | |
| Subcontract Services | \$ | - | | | |
| Overhead ⁴ | \$ | 508 | | | |
| Profit | \$ | 299 | | | |
| Total | \$ | 1,500 | | | |

Task 3B.1 – Water Supply Analysis Supplemental Funding WWP Requests for Service

| Category | Total Amount | | | |
|-------------------------------|--------------|-----|--|--|
| Salaries & Wages ¹ | \$ | 182 | | |
| Fringe ² | \$ | 95 | | |
| Travel | \$ | - | | |
| Other Expenses ³ | \$ | - | | |
| Subcontract Services | \$ | - | | |
| Overhead ⁴ | \$ | 203 | | |
| Profit | \$ | 120 | | |
| Total | \$ | 600 | | |

| Category | Tot | Total Amount | |
|-------------------------------|-----|--------------|--|
| Salaries & Wages ¹ | \$ | 2,909 | |
| Fringe ² | \$ | 1,524 | |
| Travel | \$ | - | |
| Other Expenses ³ | \$ | 200 | |
| Subcontract Services | \$ | - | |
| Overhead ⁴ | \$ | 3,250 | |
| Profit | \$ | 1,917 | |
| Total | \$ | 9,800 | |

Task 3B.2 – Water Supply Analysis Supplemental Funding Develop Middle Gulf Coast Aquifer Revisions

Task 3B.3 – Water Supply Analysis Supplemental Funding Groundwater Quality Investigation

| Category | Total Amount | | |
|-------------------------------|--------------|--------|--|
| Salaries & Wages ¹ | \$ | 12,576 | |
| Fringe ² | \$ | 6,590 | |
| Travel | \$ | - | |
| Other Expenses ³ | \$ | - | |
| Subcontract Services | \$ | - | |
| Overhead ⁴ | \$ | 14,047 | |
| Profit | \$ | 8,287 | |
| Total | \$ | 41,500 | |

Task 3B.4 – Water Supply Analysis Supplemental Funding Inter-Regional Coordination to Develop Long-Term Water Supplies

| Category | Total Amount | |
|-------------------------------|--------------|-------|
| Salaries & Wages ¹ | \$ | 2,424 |
| Fringe ² | \$ | 1,270 |
| Travel | \$ | - |
| Other Expenses ³ | \$ | - |
| Subcontract Services | \$ | - |
| Overhead ⁴ | \$ | 2,708 |
| Profit | \$ | 1,598 |
| Total | \$ | 8,000 |

| Offategies base i difating | | | |
|-------------------------------|--------------|-------|--|
| Category | Total Amount | | |
| Salaries & Wages ¹ | \$ | 364 | |
| Fringe ² | \$ | 190 | |
| Travel | \$ | - | |
| Other Expenses ³ | \$ | 200 | |
| Subcontract Services | \$ | - | |
| Overhead ⁴ | \$ | 406 | |
| Profit | \$ | 240 | |
| Total | \$ | 1,400 | |

Task 4A – Identification, Evaluation, and Selection of Water Management Strategies Base Funding

Task 4B.1 – Identification, Evaluation, and Selection of Water Management Additional Water Management Strategy Tasks

| Category | Tota | Total Amount | |
|-------------------------------|------|--------------|--|
| Salaries & Wages ¹ | \$ | 2,061 | |
| Fringe ² | \$ | 1,080 | |
| Travel | \$ | - | |
| Other Expenses ³ | \$ | - | |
| Subcontract Services | \$ | - | |
| Overhead ⁴ | \$ | 2,301 | |
| Profit | \$ | 1,358 | |
| Total | \$ | 6,800 | |

Task 4B.2 – Identification, Evaluation, and Selection of Water Management Evaluation of Conjunctive Use Strategy

| Category | Total Amount | |
|-------------------------------|--------------|--------|
| Salaries & Wages ¹ | \$ | 3,030 |
| Fringe ² | \$ | 1,588 |
| Travel | \$ | - |
| Other Expenses ³ | \$ | - |
| Subcontract Services | \$ | - |
| Overhead ⁴ | \$ | 3,385 |
| Profit | \$ | 1,997 |
| Total | \$ | 10,000 |

Task 4B.3 – Identification, Evaluation, and Selection of Water Management Evaluate revisions to Palmetto Bend Stage II strategy and determine the impacts of revised operation of Lake Texana

| Category | Tota | Total Amount | |
|-------------------------------|------|--------------|--|
| Salaries & Wages ¹ | \$ | 7,727 | |
| Fringe ² | \$ | 4,049 | |
| Travel | \$ | - | |
| Other Expenses ³ | \$ | - | |
| Subcontract Services | \$ | - | |
| Overhead ⁴ | \$ | 8,632 | |
| Profit | \$ | 5,092 | |
| Total | \$ | 25,500 | |

Task 5A – Impacts of Selected Water Management Strategies On Key Parameters of Water Quality and Impacts of Moving Water From Rural to Agricultural Areas Base Funding

| Category | Total Amount | |
|-------------------------------|--------------|-------|
| Salaries & Wages ¹ | \$ | 455 |
| Fringe ² | \$ | 238 |
| Travel | \$ | - |
| Other Expenses ³ | \$ | 200 |
| Subcontract Services | \$ | - |
| Overhead ⁴ | \$ | 508 |
| Profit | \$ | 299 |
| Total | \$ | 1,700 |

Task 5B.1 – Impacts of Selected Water Management Strategies On Key Parameters of Water Quality and Impacts of Moving Water From Rural to **Agricultural Areas Supplemental Funding**

Additional Water Management Strategy Impact Tasks

| Category | Total Amount | |
|-------------------------------|--------------|-------|
| Salaries & Wages ¹ | \$ | 1,364 |
| Fringe ² | \$ | 714 |
| Travel | \$ | - |
| Other Expenses ³ | \$ | - |
| Subcontract Services | \$ | - |
| Overhead ⁴ | \$ | 1,523 |
| Profit | \$ | 899 |
| Total | \$ | 4,500 |

Task 5B.2 – Impacts of Selected Water Management Strategies On Key Parameters of Water Quality and Impacts of Moving Water From Rural to Agricultural Areas Supplemental Funding

| Folential Changes to Aquiler Quality | | | |
|--------------------------------------|--------------|-------|--|
| Category | Total Amount | | |
| Salaries & Wages ¹ | \$ | 1,727 | |
| Fringe ² | \$ | 905 | |
| Travel | \$ | - | |
| Other Expenses ³ | \$ | - | |
| Subcontract Services | \$ | - | |
| Overhead ⁴ | \$ | 1,930 | |
| Profit | \$ | 1,138 | |
| Total | \$ | 5,700 | |

Potential Changes to Aquifer Quality

Task 5B.3 – Impacts of Selected Water Management Strategies On Key Parameters of Water Quality and Impacts of Moving Water From Rural to Agricultural Areas Supplemental Funding

Potential Movement of the City of Corpus Christi's Garwood Supply

| Category | Total Amount | |
|-------------------------------|--------------|--------|
| Salaries & Wages ¹ | \$ | 8,788 |
| Fringe ² | \$ | 4,605 |
| Travel | \$ | - |
| Other Expenses ³ | \$ | - |
| Subcontract Services | \$ | - |
| Overhead ⁴ | \$ | 9,816 |
| Profit | \$ | 5,791 |
| Total | \$ | 29,000 |

Task 6A – Water Conservation and Drought Management Recommendations Base Funding

| Category | Tot | Total Amount | |
|-------------------------------|-----|--------------|--|
| Salaries & Wages ¹ | \$ | 2,970 | |
| Fringe ² | \$ | 1,556 | |
| Travel | \$ | - | |
| Other Expenses ³ | \$ | 200 | |
| Subcontract Services | \$ | - | |
| Overhead ⁴ | \$ | 3,317 | |
| Profit | \$ | 1,957 | |
| Total | \$ | 10,000 | |

| Category | Total Amount | | | | | | |
|-------------------------------|--------------|-------|--|--|--|--|--|
| Salaries & Wages ¹ | \$ | 2,424 | | | | | |
| Fringe ² | \$ | 1,270 | | | | | |
| Travel | \$ | - | | | | | |
| Other Expenses ³ | \$ | - | | | | | |
| Subcontract Services | \$ | - | | | | | |
| Overhead ⁴ | \$ | 2,708 | | | | | |
| Profit | \$ | 1,598 | | | | | |
| Total | \$ | 8,000 | | | | | |

Task 6B – Water Conservation and Drought Management Recommendations Supplemental Funding

Task 7 – Description of How the Regional Water Plan is Consistent with Long-Term Protection of the State's Water Resources and Natural Resources Base

| Funding | | | | | | | | |
|-------------------------------|----|-------|--|--|--|--|--|--|
| Category Total Amou | | | | | | | | |
| Salaries & Wages ¹ | \$ | 2,364 | | | | | | |
| Fringe ² | \$ | 1,239 | | | | | | |
| Travel | \$ | - | | | | | | |
| Other Expenses ³ | \$ | 200 | | | | | | |
| Subcontract Services | \$ | - | | | | | | |
| Overhead ⁴ | \$ | 2,640 | | | | | | |
| Profit | \$ | 1,557 | | | | | | |
| Total | \$ | 8,000 | | | | | | |

| Task 8 – Unique Stream Segments / Reservoir Sites / Legislative |
|-----------------------------------------------------------------|
| Recommendations Base Funding |

| Category | То | tal Amount |
|-------------------------------|----|------------|
| Salaries & Wages ¹ | \$ | 3,273 |
| Fringe ² | \$ | 1,715 |
| Travel | \$ | - |
| Other Expenses ³ | \$ | 200 |
| Subcontract Services | \$ | - |
| Overhead ⁴ | \$ | 3,655 |
| Profit | \$ | 2,157 |
| Total | \$ | 11,000 |

| Recommendations Dase Funding | | | | | | | | |
|-------------------------------|--------------|-------|--|--|--|--|--|--|
| Category | Total Amount | | | | | | | |
| Salaries & Wages ¹ | \$ | 1,606 | | | | | | |
| Fringe ² | \$ | 842 | | | | | | |
| Travel | \$ | - | | | | | | |
| Other Expenses ³ | \$ | 200 | | | | | | |
| Subcontract Services | \$ | - | | | | | | |
| Overhead ⁴ | \$ | 1,794 | | | | | | |
| Profit | \$ | 1,058 | | | | | | |
| Total | \$ | 5,500 | | | | | | |

Task 9 – Report to Legislature on Water Infrastructure Funding Recommendations Base Funding

Task 10 – Adoption of Plan Base Funding

| Category | tal Amount | |
|-------------------------------|------------|--------|
| Salaries & Wages ¹ | \$ | 11,579 |
| Fringe ² | \$ | 6,067 |
| Travel | \$ | 1,591 |
| Other Expenses ³ | \$ | 2,200 |
| Subcontract Services | \$ | - |
| Overhead ⁴ | \$ | 12,933 |
| Profit | \$ | 7,630 |
| Total | \$ | 42,000 |

¹ <u>Salaries and Wages</u> is defined as the cost of salaries of engineers, draftsmen, stenographers, surveymen, clerks, laborers, etc., for time directly chargeable to this contract.

² <u>Fringe</u> is defined as the cost of social security contributions, unemployment, excise, and payroll taxes, employment compensation insurance, retirement benefits, medical and insurance benefits, sick leave, vacation, and holiday pay applicable thereto.

³<u>Other Expenses</u> is defined to include expendable supplies, communications, reproduction, postage, and costs of public meetings.

⁴ <u>Overhead</u> is defined as the costs incurred in maintaining a place of business and performing professional services similar to those specified in this contract. These costs shall include the following:

- Indirect salaries, including that portion of the salary of principals and executives that is allocable to general supervision;
- Indirect salary fringe benefits;
- Accounting and legal services related to normal management and business operations;
- Travel costs incurred in the normal course of overall administration of the business;
- Equipment rental;
- Depreciation of furniture, fixtures, equipment, and vehicles;
- Dues, subscriptions, and fees associated with trade, business, technical, and professional organizations;
- Other insurance;
- Rent and utilities; and
- Repairs and maintenance of furniture, fixtures, and equipment.

APPENDIX D TIME SCHEDULE

| | | | | | 20 | 008 | | 2009 | | | | 2010 | | | | | |
|---|------|---|----|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|------|----|----|----------|------|----|---|----|----|----------|
| | Task | | | Task Description | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 4Q | 1Q | | 3Q | 4Q | |
| 0 | | | | | Scope of Work Development | | | | | | | | | | | | |
| | 1 | | | | Develop schedule for submittal of draft documents to the Committee, to the | • | • | | | | | | | | | | 1 |
| | | | | | RWPG as a whole, and to the TWDB. Meet with RWPG to present timeline for preparation of Scope of Work and to | | | | | | | | | | | | <u> </u> |
| | 2 | | | | establish Scoping Committee | • | | | | | | | | | | | ł |
| | 3 | | | | Coordinate with TWDB on allowable tasks and subtasks to reduce uncertainty | • | • | | | | | | | | | | |
| | Ű | | | | as much as possible. | | | | | | | | | | | | <u> </u> |
| | 4 | | | | Develop draft scoping document narrative for submission to the Scoping | | | | | | | | | | | | ł |
| | | | | | Committee for approval of overall tasks prior to beginning cost development. | | | | | | | | | | | - | |
| | - | | | | Receive feedback from Scoping Committee and prepare draft scope narrative and estimated "ball park" cost estimates for review by Scoping Committee and | | | | | | | | | | | | l |
| | 5 | | | | RWPG | | • | | | | | | | | | | l |
| | 6 | | | | Revise narrative scope document based on feedback from Scoping | | | | | | | | | | | | |
| | 0 | | | | Committee and RWPG and develop cost estimates for subtasks. | | • | | | | | | | | | | L |
| | 7 | | | | Submit task and subtask budgets, narrative scope, and completed grant application to Executive Committee for final approval. | | • | | | | | | | | | | ł |
| | • | | | | Make any final modifications to scope document and grant application and | | | | | | | | | | | | |
| | 8 | | | | prepare for LRWPG Chairman's approval and submittal to TWDB. | | • | • | | | | | | | | | <u> </u> |
| 1 | | | | | Planning Area Description | | | | | | | | | | | | L |
| | 1 | | | | Review listing of Water User Groups from this round with list from last round and include descriptions of any new WUGs. | | | | • | | | | | | | | l |
| | 2 | | | | Discuss current impacts on agriculture in the Region and major trends that | | | | | | | | | | | | |
| | 2 | | | | influence production and, consequently, water demand. | | | | · | | | | | | | | |
| | 3 | | 1 | | Review TWDB listing of threatened and endangered species and their habitat | | 1 | | | | | | | | | | ł |
| | 3 | | | | and incorporate any changes since the listing from the last round. | | | | • | | | | | | | | ł |
| | 4 | | | | Prepare and submit draft Chapter 1 to the LRWPG members and TWDB for | | | | | | | | | | | | |
| | 4 | | | | review and approval. | | | | - | • | | | | | | | L |
| | 5 | | | | Incorporate LRWPG and TWDB comments with associated recommended changes and seek approval for final draft of this chapter. | | | | | | | | | | | | • |
| 2 | | | | | Population and Water Demands | | | | | | | | | | | | <u> </u> |
| - | Α | | | | Base Funding | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | 1 | | | Prepare tables of population and water demands for RWPG approval, including revised agricultural demand projections from 1st Biennium efforts. | | | | • | • | | | | | | | ł |
| | | _ | | | Prepare and submit draft chapter two to the LRWPG members and TWDB for | | | | | | | | | | | | <u> </u> |
| | | 2 | | | review and approval. | | | | | | | • | | | | | |
| | | 3 | | | Incorporate LRWPG and TWDB comments with associated recommended | | | | | | | | | | | | • |
| | в | | | | changes and seek approval for final draft of this chapter. Suplemental Funding | | | | | | | | | | | | |
| | | 1 | | | Additional Population and Water Demand Tasks | | | | | | | | | | | | |
| | | | | | Prepare correspondence to each of the WUGs concerning the proposed | | | | | | | | | | | | |
| | | | а | | populations for this planning round. Provide suggestions concerning data to be gathered if the WUGs want to challenge these numbers now or in the next | | | | • | | | | | | | | |
| | | | | | planning cycle after this one. | | | | | | | | | | | | ł |
| | | | | | Discuss any requests for changes with the requestors and review data they | | | | | | | | | | | | |
| | | | b | | currently have to determine whether it meets TWDB requirements to support | | | | • | • | | | | | | | |
| | | | | | a population change. Submit recommendations to Executive Committee for approval of changes, if | | | | | | | | | | | | |
| | | | с | | any. | | | | | • | | | | | | | |
| | | | d | | Submit to TWDB for approval of draft numbers. | | | | | | • | | | | | | |
| | | | е | | Incorporate all approved changes to database tables as appropriate. Make changes as appropriate and provide final numbers to RWPG for | | | | | | | • | | | | | • |
| | | | f | | approval. | | | | | | | • | | | | | |
| | | 2 | | | New Demands for Wholesale Water Providers | | | | | | | | | | | | |
| | | | а | | Correspond with the LNRA to determine whether there are any recent or | | | | • | | | | | | | | |
| | | | b | | pending requests for service in their planning horizons. Incorporate new requests for water into WWP demands. | | | | • | • | | | | | | | |
| 3 | | | | | Water Supply Analysis | | | | - | | | | | | | | |
| - | Α | | | | Base Funding | | | | | • | | | | | | | |
| | | 1 | | | Revise water supply allocations to individual WUGs as necessary and update | | | | | • | | | | | | | 1 |
| | | | | | Chapter 3 of the Plan. | | | | | | | | | | | | |
| | | 2 | L | L | Prepare revised tables for the 2011 Plan and for the TWDB database entries. | L | L | L | | L | L | L | L | | | | |
| | В | | | | Supplemental Funding | | | | | | | | | | | | |
| | | 1 | | | WWP Requests for Service Correspond with the LNRA to determine whether there are any recent or | | | | | | | | | | | | |
| | | | а | | pending requests for service in their planning horizons that may impact | | | | | | | | | | | | ł |
| | | | ŭ | | available water supplies. | | | | | | | | | | | | |
| | | | b | | Incorporate new requests for water into available water supplies. | | | | • | ٠ | | | | | | | |
| | | 2 | | | Develop Middle Gulf Coast Aquifer Revisions Update groundwater availability in the middle Gulf Coast Aquifer area based | | | | | | | | | | | | |
| | | | | | on completed GAM model that was not available in time for the last planning | | | | | | | | | | | | ł |
| | | | а | | round by applying appropriate regional planning criteria to a maximum of two | | | | • | • | | | | | | | ł |
| | | | | <u> </u> | GAM runs. | | I | ļ | | | | | ļ | L | | | |
| | | | 1 | | Review results of modeling performed for LCRA/SAWS project on groundwater in the area, as well as the review of that work that was performed | | 1 | | | | | | | | | | |
| | | | b | | by the Coastal Bend GCD, provided that Coastal Bend GCD is willing to share | | 1 | | | • | | | | | | | ł |
| | | | | | the results of that effort with the RWPG. | | | | | | | | | | | | <u> </u> |
| | | | ۱. | | Meet with the Coastal Bend GCD, the Texana GCD, and the Lavaca GCD to | | 1 | | | | | | | | | | ł |
| | | | С | | review the GAM results and discuss other factors which might be included in the process of establishing revised availability numbers. | | 1 | | | • | | | | | | | ł |
| | | | | | Meet with the LRWPG to review the proposed revisions and potential impacts | | 1 | | | | <u> </u> | | | | | | |
| | | | d | | to selected water management strategies. | | | | | | • | | | | | | |
| I | - | | е | | Recommend final revisions to LRWPG of groundwater availability projections | | | | | | • | | | | | _ |] |
| _ | | 3 | | | for each County using the middle Gulf Coast aquifer. Groundwater Quality Investigation | | | | | | | | | | | | |
| | | 5 | i | 1 | | | | | 1 | | | | | | | | |

| | | | | | | | 2008 | | | 2009 | | | | | | | |
|---|------|---|----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----|----|------|----|----|----|----------|----|----|---|
| | Task | | | Task Description | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 4Q | 1Q | 20 2Q | 3Q | 4Q | |
| | | | а | | Review available reports from TWDB, TCEQ, and USGS regarding groundwater quality in the LRWPA. | | | | | | | | • | | | | |
| | | - | | | Obtain groundwater quality in the LRWPA. | | | | | | | | | | | | |
| | | | b | | database of discrete samples associated with well locations in a GIS. Work | | | | | | | | | | | | |
| | | | | | with LNRA to solicit input regarding groundwater quality from well owners in the LRWPA. | | | | | | | | | | | | |
| | | | с | | Compare database records to primary and secondary Maximum Contaminant | | | | | | | | • | • | | | |
| | | | | | Levels (MCLs) to identify "problem wells." | | | | | | | | | | | | |
| | | | d | | Plot trends in containment readings for each of the "problem wells" identified. | | | | | | | | • | • | | | |
| | | | е | | Review dates of water quality samples and determine overall levels of pumpage during the time the samples were obtained. | | | | | | | | • | • | | | |
| | | | f | | Produce a GIS exhibit identifying the location of "problem wells" throughout | | | | | | | | | | | | |
| | | | | | the LRWPA. Briefly analyze data to determine whether there is an identifiable impact of | | | | | | | | | - | | | |
| | | | | | pumpage on groundwater quality. In the event that there is insufficient data to | | | | | | | | | | | | |
| | | | g | | support this analysis, identify data gaps that must be filled in order to perform | | | | | | | | | • | | | |
| | | | | | the analysis if the analysis itself cannot be performed. Identify municipalities with water supplies in the vicinity of identified | | | | | | | | | | | | |
| | | | h | | groundwater quality issues. | | | | | | | | | • | | | |
| | | | i | | Where possible, identify other water users in the immediate vicinity of areas with recorded groundwater issues. | | | | | | | | | • | | | |
| | | | i | | Use the available period of record for each "problem well" to project the | | | | | | | | | | | | |
| | | | , | | decline in groundwater quality throughout the planning horizon. Prepare a summary section for Chapter 3 of the 2011 RWP to address | | | | | | | | | | | | |
| | | | k | | groundwater quality concerns. | | | | | | | | | • | • | | |
| | | 4 | | | Inter-Regional Coordination to Develop Long-Term Water Supplies Meet with representatives and consultants of the Region L and Region N | <u> </u> | | | | | | | | <u> </u> | | | |
| | | | а | | Water Planning Groups to discuss projected needs for water supplies within | | | | • | • | | | | | | | |
| | | | | | the LRWG. Brief the LRWPG on the status of out-of-Region water supply projects and | | | | | | | | | | | | |
| L | L | | b | L | recommend a course of action. | L | L | L | | • | L | | L | | L | L | |
| | | | - | | | ľ | | | | | | | | | | | |
| | | | С | | Revise Chapter 3 of the Plan to include revised water supplies resulting from the projected implementation of water strategies by Regions L and N. | | | | | • | | | | | | | |
| | | | d | | Allocate the revised water supplies to LRWPG WUGs as necessary. | | | | | • | | | | | | | |
| 4 | | | | | Identification, Evaluation, And Selection Of Water | | | | | | | | | | | | |
| | А | | | | Management Strategies Based On Needs Base Funding | | | | | | | | | | | | |
| | | 1 | | | Submit revised chapter to LRWPG members and TWDB for review and | | | | | | | | | • | | | |
| | | | | | approval. Incorporate LRWPG and TWDB comments with associated recommended | | | | | | | | | | | | |
| | _ | 2 | | | changes and seek approval for final draft of this chapter. | | | | | | | | | | | | • |
| | в | 1 | | | Supplemental Funding Additional Water Management Strategy Tasks | | | | | | | | | | | | |
| | | | | | Re-confirm water management strategies for all WUGs by sending | | | | | | | | | | | | |
| | | | а | | correspondence to each WUG outlining the proposed strategy for the 2011 Plan for that WUG. | | | | | | • | | | | | | |
| | | | b | | Re-evaluate water management strategies for all WUGs with changed | | | | | • | | | | | | | |
| | | | - | | demands or reduced supplies as a result of the Task 2 and 3 revisions. | | | | | | | | | | | | |
| | | | с | | Coordinate with Lavaca-Navidad River Authority and review any potential | | | | | | | | | | | | |
| | | | Ŭ | | changes in environmental flow needs based on the publication of the 2006 Freshwater Inflow Needs Study, and other environmental flow requirements. | | | | | | | | | | | | |
| | | | | | Perform an update of water management strategies capital costs to second | | | | | | | | | | | | |
| | | | d | | quarter 2007 price levels for all strategies from the 2006 plan that will be carried over to the 2011 regional plan. This update will be performed for the | | | | | | | | | | | | |
| | | | u | | majority of the strategies by updating the existing cost tables to the required | | | | | | | | | | | | |
| | | | | | construction price index. | | | | | | | | | | | | |
| | | | е | | Perform an update of water management strategies Operations and Maintenance (O&M) costs for strategies, as noted above, to be reflective of | | 1 | | • | • | | | | | | | |
| | | | | | updated power and labor costs as well as annualized capital costs. Revise Chapter 4 of the plan to include any new management strategies and | | | | | | | | | | | | |
| | L | | f | L | the revised costs. | | | | | L | | | • | | | | |
| | | 2 | | | Determine impacts to the cost of Conjugative Lies of Croundwater - to-to- | | | | | | | | | | | | |
| | | | - | - | Determine impacts to the cost of Conjunctive Use of Groundwater strategy. Review Middle Gulf Coast Aquifer GAM to determine the impacts of | - | | | | | | | | | | | |
| | | | а | | Conjunctive Use of Groundwater strategy and develop costs for groundwater | | | | | | | | • | | | | |
| | | | <u> </u> | | pumpage under extreme conditions. Compare costs to previous estimates and alterantive strategies in order to | — | - | - | | | | | | <u> </u> | | | |
| | | | b | | determine the potential for meeting shortages with Conjunctive Use. | | <u> </u> | | | | | | • | | | | |
| | | | с | | Recommend alternative strategies to Conjunctive Use as necessary based on costs. | | | | | | | | | • | | | |
| | | | d | | Revise text of Chapter 4 and other sections based on changes in strategy | | 1 | 1 | | | | | | • | | | |
| | | - | <u> </u> | | selection. Evaluate revisions to Palmetto Bend Stage II strategy and determine the | | <u> </u> | | | | | | | | | | |
| | | 3 | | | impacts of revised operation of Lake Texana. | | | | | | | | | | | | |
| | | | а | | Evaluate Update Palmetto Bend Stage II Strategy Adjust Palmetto Bend Stage II strategy to include the reservoir location | | | | | | | | | | | | |
| | | | | i | identified by the legislative unique reservoir site designation. | | | | | • | | | | | | | |
| | | | | ii | Update project yield and cost for Stage II as necessary. Account for water supplies required by Regions L and N through inter-regional | | | | | ٠ | | | | | | | |
| | L | | L | ij | coordination. | L | L | L | | · | • | | L | | L | L | |
| | | | | iv | Adjust Chapter 4 of the Plan accordingly. | | | | | | | | • | | | | |
| | | | b | | Evaluate Impacts of the City of Corpus Christi's Garwood supply diversion through Lake Texana | | 1 | | | | | | | | | | |
| _ | | | | i | Obtain the latest Full Diversion (Run 3) Water Availability Model (WAM) from TCEQ. | | | | • | | | | | | | | |
| | | | | | | | | 1 | 1 | | | | 1 | | 1 | | |

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| 8 changes and seek approval for final draft of this chapter. • | <u> </u> | | · ' | | <u> </u> | | | | | | | | | | | | <u> </u> | |
| | L | L | 8 | | L | changes and seek approval for final draft of this chapter. | | | | | | | | | | | | • |
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| | | | | | | 20 | 800 | | | 20 | 09 | | | 20 | 10 | |
|------|---|----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------|----|----------|----------|----|----|----|----------|----------|----|----|----|----------|
| Task | | k | Task Description | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 4Q | |
| | | | | Follow up letter survey with telephone call to those who do not respond within | | | | | | | | | | | | |
| | | 1 | | 30 days. Make at least three telephone calls to each non-responding WUG, or until response is received. | | | | • | • | | | | | | | |
| | | | | Review available TWDB data to determine the level of water savings which | | | | | | | | | | | | |
| | | 2 | | have been documented through implementation of drought contingency measures. | | | | | • | | | | | | | |
| | | | | measures. | | | | | | | | | | | | |
| | | 3 | | Document results of follow up calls and review of TWDB data in a technical | | | | | • | | | | | | | |
| | | | | memorandum to be included in the Appendix to the 2011 Regional Plan. Description Of How The Regional Water Plan Is Consistent | | | | | | | | | | | | |
| 7 | | | | With Long-Term Protection Of The State'S Water Resources | | | | | | | | | | | | |
| 1 | | | | And Natural Resources | | | | | | | | | | | | |
| | | | | Update the current descriptions of water management strategies with any new | | | | | | | | | | | | |
| | 1 | | | strategies developed during this planning round, as well as any alternate | | | | | | | | | • | | | |
| | | | | strategies which are developed for specific WUGs with shortages which need additional flexibility. | | | | | | | | | | | | |
| | 2 | | | Revise wording for Chapter 7 of the plan to include the new management | | | | | | | | | | | | |
| | | | | strategies. Submit revised chapter to LRWPG members and TWDB for review and | | | | | | | | | | | | |
| | 3 | | | approval. | | | | | | | | | | • | • | |
| | 4 | | | Incorporate LRWPG and TWDB comments with associated recommended | | | | | | | | | | | | • |
| | | | | changes and seek approval for final draft of this chapter. | | | | | | | | | | | | |
| 8 | | | | Unique Stream Segments / Reservoir Sites / Legislative Recommendations | | | | | | | | | | | | |
| | | - | | Convene LRWPG to review recommendations regarding unique stream | | | | | | | | | | | | |
| | 1 | | | segments, unique reservoirs, and legislative recommendations from last | | 1 | | | | | | | • | | | |
| _ | | - | ┝─┼ | round. Provide any updates of descriptions of reservoir projects and any changes in | | <u> </u> | | | | | | | | | | |
| | 2 | L | | classifications in stream segments. | | | | | | | | | • | | | L |
| | 3 | | | Revise wording for Chapter 8 of the plan to include the new management | | | | | | | | | • | | | |
| _ | | | | strategies. Submit revised chapter to LRWPG members and to TWDB for review and | | | | | | | | | | | | |
| | 4 | | | approval. | | | | | | | | | | • | • | |
| | 5 | | | Incorporate LRWPG and TWDB comments with associated recommended | | | | | | | | | | | | • |
| | | | | changes and seek approval for final draft of this chapter. Report To Legislature On Water Infrastructure Funding | | | | | | | | | | | | |
| 9 | | | | Recommendations | | | | | | | | | | | | |
| | 1 | | | Integrate WIF information request into conservation plan letter to individual | | | | | | | | | | | | |
| | | | | WUGs. Receive and collate information on infrastructure needs from individual WUGs | | | | | | | | | | | | |
| | 2 | | | and develop tables of total funds needed. | | | | • | • | | | | | | | |
| | 3 | | | Revise wording for Chapter 9 of the plan to include the updated WIF funding | | | | | | | | | | | | |
| | Ŭ | | | needs. Submit revised chapter to LRWPG members and TWDB for review and | | | | | | | | | | | | |
| | 4 | | | approval. | | | | | | | | | | | • | |
| | 5 | | | Incorporate LRWPG and TWDB comments with associated recommended | | | | | | | | | | | | • |
| 10 | Ŭ | | | changes and seek approval for final draft of this chapter. | | | | | | | | | | | | |
| 10 | Α | | | Adoption of Plan Public Participation for Planning Grant Process | | | | | | | | | | | | |
| | | 1 | | Provide public notification of LRWPG intent to apply for grant funding for the | | | | | | | | | | | | |
| | | | | next three years of the third planning cycle. Make grant applications available to the general public throughout the | | - | | | | | | | | | | |
| | | 2 | | LRWPA. | | • | | | | | | | | | | |
| | | 3 | | Make presentations explaining the proposed grant funding for LRWPG in a | | | | | | | | | | | | |
| | | Ŭ | | public meeting. | | | | | | | | | | | | |
| | | 4 | | Incorporate changes requested by LRWPG as a result of public comments. | | • | • | | | | L | | | | | L |
| | В | | | Periodic Meetings of the Region LRWPG | | | | | | | | | | | | |
| _ | | 1 | \vdash | Participate in approximately 12 regular meetings of the LRWPG Participate in developing agendas, arranging speakers, and coordinating | | | | • | • | • | • | • | • | • | • | • |
| | | 2 | | activities for the LRWPG. | | | | • | • | • | • | • | • | • | • | • |
| | | | | Develop presentations and handout materials for the regular and special | | | | | | | | | | | | |
| | | 3 | | meetings to provide technical and explanatory data to the LRWPG and its subcommittees. | | 1 | | • | • | • | • | • | • | • | • | • |
| | С | | | Required Public Meetings | | | | | | | | | | | | |
| _ | | 1 | \vdash | Provide notice for the three public meetings. | | | | | | | | | | • | • | |
| | | 2 | | Develop presentations and handout materials for the public meetings to provide to the general public. | | 1 | | | | | | | | • | • | |
| | | 3 | | Provide draft responses for RWPG approval to any questions that are asked | l | 1 | | 1 | l | | | | l | • | • | |
| _ | D | Ľ | ┝─┼ | at the public meetings. Administrative Support | | <u> </u> | <u> </u> | | | | <u> </u> | <u> </u> | | | | <u> </u> |
| | U | | ┢─┤ | Prepare and submit invoices to the LNRA for work performed for the RWPG | | | | | | | | | | | | - |
| | | 1 | | and provide consultant's status report for each meeting. | | | | • | • | • | • | • | • | • | • | • |
| Ī | _ | 2 | [| Maintain lists of contacts for regional planning information in the region, | | | | • | • | • | • | • | • | • | • | • |
| _ | | <u> </u> | + + | coordinated with Karen Gregory at LNRA. Attend and prepare presentation and handout materials for public meetings in | | | | | | | | | | | | <u> </u> |
| | | 3 | | various locations of the region to solicit input on the draft LRWPG Regional | | 1 | | | | | | | | • | • | |
| | | - | $\left \right $ | Plan. | | | | | | | | | | | - | |
| _ | | 4 | ┢─┤ | Prepare report section summarizing Task 10 activities. Prepare and transmit correspondence once LRWPG approval of draft | | | | | | | | | | • | • | - |
| | | 5 | 1 | responses is obtained. | | 1 | 1 | | | l | l | 1 | | | • | • |

APPENDIX E QUALIFICATIONS AND DIRECT EXPERIENCE OF PROPOSED PROJECT STAFF

Patrick Brzozowski, P.E.

Lavaca-Navidad River Authority P.O. Box 429 Edna, Texas 77957 361-782-5229 Fax 361-782-5310 pbrzozowski@lnra.org

2003 to Present

Lavaca-Navidad River Authority General Manager

As the Chief Administrative Officer, manages and operates the affairs of the Authority, subject only to Board of Director orders.

1998 to 2003

Lavaca-Navidad River Authority Water Resource Manager

Manage operation and maintenance of water delivery and utility sections Manage environmental matters Reservoir Management Operations

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

APPENDIX F PROOF OF NOTIFICATION

NEWSPAPERS FOR PUBLICATION OF PAID NOTICES-LRWPG-APRIL 2008

| Newspaper | Publication Date |
|-------------------------------|---------------------|
| Shiner Gazette | Thursday, April 17 |
| Moution Eagle | Thursday, April 17 |
| Yoakum Herald Times | Wednesday, April 16 |
| Victoria Advocate | Tuesday, April 15 |
| Jackson County Herald-Tribune | Wednesday, April 16 |
| El Campo Leader-News | Wednesday, April 16 |
| Hallettsville Tribune-Herald | Wednesday, April 16 |
| East Bernard Express | Thursday, April 17 |
| Wharton Journal-Spectator | Wednesday, April 16 |

LAVACA REGIONAL WATER PLANNING GROUP

P.O. Box 429 Phone: 361-782-5229 Edna, Texas 77957 Fax: 361-782-5310

EXECUTIVE COMMITTEE

Judge Harrison Stafford II Chairman Counties

Bob Weiss Vice-Chairman Public

Patrick Brzozowski Secretary *River Authorities*

Roy D. Griffin Electric Service

Ed Weinheimer Small Businesses

MEMBERS

Calvin Bonzer Small Business

John Butschek Municipalities

Gerald Clark Agricultural

Pat Hertz Water Districts

Jack Maloney Municipalities

Commissioner Philip Miller Counties

Richard J. Ottis Industries

L. G. Raun Agricultural

Dean Schmidt Agricultural

Robert Shoemate Environmental

Commissioner David E. Wagner Counties

Larry Waits Agricultural **TO:** All Interested Parties

FROM: Harrison Stafford II, Chairman, Lavaca Regional Water Planning Group (Region P)

DATE: April 14, 2008

SUBJECT: Notice of Public Meeting to receive input on Scope of Work and Budget for Second Biennium Funding for preparation of the 2011 Regional Water Plan.

NOTICE OF PUBLIC MEETING

NOTICE IS HEREBY GIVEN that the Lavaca Regional Water Planning Group, Region P, is seeking input on the Scope of Work and Budget for Second Biennium Funding for preparation of the 2011 Regional Water Plan. Written and oral comments regarding the scope of work will be taken at a Public Meeting at **1:30 p.m. on Monday, May 19, 2008** in the Meeting Room of the Lavaca Navidad River Authority Office Complex, 4631 FM 3131, located approximately seven (7) miles east of Edna, Jackson County, Texas off FM 3131.

NOTICE IS ALSO GIVEN that the Lavaca Navidad River Authority (LNRA) as the designated political subdivision for the Region P Group will submit on or before June 13, 2008, a grant application for financial assistance to the Texas Water Development Board (TWDB) on behalf of the LRWPG (Region P) to carry out the scope of work.

Copies of the application may be obtained from LNRA at the address below when it become available. Written comments regarding the grant application must be submitted to the LRWPG (Region P) by 5:00 p.m. on May 16, 2008 and J. Kevin Ward, Executive Administrator, TWDB, P. O. Box 13231, Austin, TX 78711-3231. For further questions or additional information please contact: Patrick Brzozowski, General Manager, Lavaca Navidad River Authority, P.O. Box 429, Edna, Texas 77957, telephone (361)782-5229 or email pbrzozowski@Inra.org.

4-15-2008C9:352m FILED KENNETH W. McELVEEN-Clerk of County Court Jackson County, Texas

RECEIVED APR 17 - 18 LNRA

EXECUTIVE COMMITTEE

Judge Harrison Stafford II

Chairman

Counties

Bob Weiss Vice-Chairman

Public

Secretary

LAVACA REGIONAL WATER PLANNING GROUP

P.O. Box 429 Phone: 361-782-5229 Edna, Texas 77957 Fax: 361-782-5310 FILED FOR RECORD

APR 1 6 2008

TO: All Interested Parties

DATE: April 14, 2008

(Region P)

Water Plan.

) ELIZABETH A. KOUBA, CLERK OUNTY COURT LAVACA CO., TX

FROM: Harrison Stafford II, Chairman, Lavaca Regional Water Planning Group

River Authorities

Roy D. Griffin Electric Service

Patrick Brzozowski

Ed Weinheimer Small Businesses

MEMBERS

Calvin Bonzer Small Business

John Butschek Municipalities

Gerald Clark Agricultural

Pat Hertz Water Districts

Jack Maloney Municipalities

Commissioner Philip Miller Counties

Richard J. Ottis Industries

L. G. Raun Agricultural

Dean Schmidt Agricultural

Robert Shoemate Environmental

Commissioner David E. Wagner Counties

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AVACA REGIONAL WATER PLANNING GROUP

P.O. Box 429 Phone: 361-782-5229 Edna, Texas 77957 Fax: 361-782-5310

EXECUTIVE COMMITTEE

Judge Harrison Stafford II Chairman Counties

Bob Weiss Vice-Chairman *Public*

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MEMBERS

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Gerald Clark Agricultural

Pat Hertz Water Districts

Jack Maloney Municipalities

Commissioner Philip Miller Counties

Richard J. Ottis Industries

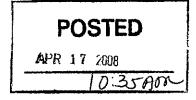
L. G. Raun Agricultural

Dean Schmidt Agricultural

Robert Shoemate Environmental

Commissioner David E. Wagner Counties

Larry Waits Agricultural



TO: All Interested Parties

FROM: Harrison Stafford II, Chairman, Lavaca Regional Water Planning Group (Region P)

DATE: April 14, 2008

SUBJECT: Notice of Public Meeting to receive input on Scope of Work and Budget for Second Biennium Funding for preparation of the 2011 Regional Water Plan.

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taunto

AFFIDAVIT OF PUBLICATION STATE OF TEXAS





LAVACA NAVIDAD RIVER AUTHORITY

Before me, the undersigned authority, on this day personally appeared

 Kristie Bludau
 , the
 General Manager

 (Name)
 (TITLE)

of Shiner Gazette, a newspaper having general circulation in Lavaca County, Texas, who being by me duly sworn, deposes and says that the foregoing attached advertising was published in said newspaper on the following date(s), to wit: Thursday, April 17, 2008

Notice of Public Meeting

(Signature)

Kristie Bludan

(Print Name)

Subscribed and sworn to before me this the <u>21st</u> day of <u>May</u>, 2008 to certify which witness my hand and seal of office.

argaret

Notary Public in and for Lavaca County, Texas.

Thursday, April 17, 2008

NOTICE OF PUBLIC MEETING

NOTICE IS HEREBY GIVEN that the Lavaca Regional Water Planning Group, Region P, is seeking input on the Scope of Work and Budget for Second Biennium Funding for preparation of the 2011 Regional Water Plan. Written and oral comments regarding the scope of work will be taken at a Public Meeting at 1:30 p.m. on Monday, May 19, 2008 in the Meeting Room of the Lavaca Navidad River Authority Office Complex, 4631 FM 3131, located approximately seven (7) miles east of Edna, Jackson County, Texas off FM 3131.

NOTICE IS ALSO GIVEN that the Lavaca Navidad River Authority (LNRA) as the designated political subdivision for the Region P Group will submit on or before June 13, 2008, a grant application for financial assistance to the Texas Water Development Board (TWDB) on behalf of the LRWPG (Region P) to carry out the scope of work.

Copies of the application may be obtained from LNRA at the address below when it become available. Written comments regarding the grant application must be submitted to the LRWPG (Region P) by 5:00 p.m. on May 16, 2008 and J. Kevin Ward, Executive Administrator, TWDB, P. O. Box 13231, Austin, TX 78711-3231. For further questions or additional information please contact: Patrick Brzozowski, General Manager, Lavaca Navidad River Authority, P.O. Box 429, Edna, Texas 77957, telephone (361)782-5229 or email pbrzozowski@Inra.org.

AFFIDAVIT OF PUBLICATION STATE OF TEXAS

COUNTY OF LAVACA

NEGEOVED N_{MAY 2 2 2008}

LAVACA NAVIDAD RIVER AUTHORITY

Before me, the undersigned authority, on this day personally appeared

 Kristie Bludau
 , the
 General Manager

 (Name)
 (TITLE)

of Moulton Eagle, a newspaper having general circulation in Lavaca County, Texas, who being by me duly sworn, deposes and says that the foregoing attached advertising was published in said newspaper on the following date(s), to wit: Thursday, April 17, 2008

Notice of Public Meeting

FUE (Signature)

ristic Bludan

Print Name)

Subscribed and sworn to before me this the <u>21st</u> day of <u>May</u>, 2008 to certify which witness my hand and seal of office.

Notary Public in and for Lavaca County, Texas.

NOTICE OF PUBLIC MEETING

NOTICE IS HEREBY GIVEN that the Lavaca Regional Water Planning Group, Region P, is seeking input on the Scope of Work and Budget for Second Biennium Funding for preparation of the 2011 Regional Water Plan. Written and oral comments regarding the scope of work will be taken at a Public Meeting at 1:30 p.m. on Monday, May 19, 2008 in the Meeting Room of the Lavaca Navidad River Authority Office Complex, 4631 FM 3131, located approximately seven (7) miles east of Edna, Jackson County, Texas off FM 3131.

NOTICE IS ALSO GIVEN that the Lavaca Navidad River Authority (LNRA) as the designated political subdivision for the Region P Group will submit on or before June 13, 2008, a grant application for financial assistance to the Texas Water Development Board (TWDB) on behalf of the LRWPG (Region P) to carry out the scope of work.

Copies of the application may be obtained from LNRA at the address below when it become available. Written comments regarding the grant application must be submitted to the LRWPG (Region P) by 5:00 p.m. on May 16, 2008 and J. Kevin Ward, Executive Administrator, TWDB, P. O. Box 13231, Austin, TX 78711-3231. For further questions or additional information please contact: Patrick Brzozowski, General Manager, Lavaca Navidad River Authority, P.O. Box 429, Edna, Texas 77957, telephone (361)782-5229 or email pbrzozowski@Inra.org.

AFFIDAVIT OF PUBLICATION STATE OF TEXAS



LAVACA NAVIDAD RIVER AUTHORITY

COUNTY OF LAVACA

Before me, the undersigned authority, on this day personally appeared

Kristie Bludau General Manager _, the __ (Name) (TITLE)

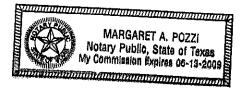
of Yoakum Herald Times, a newspaper having general circulation in Lavaca County, Texas, who being by me duly sworn, deposes and says that the foregoing attached advertising was published in said newspaper on the follow-Wednesday, April 16, 2008 ing date(s), to wit:

Notice of Public Meeting

Kristic Bludan

Subscribed and sworn to before me this the ______ day of _____ May, 2008

to certify which witness my hand and seal of office.



Vargare

otary Public in and for Lavaca County, Texa

YOAKUM HERALD-TIMES, WEDNESDAY, APRIL 16, 2008

NOTICE OF PUBLIC MEETING

NOTICE IS HEREBY GIVEN that the Lavaca Regional Water Planning Group, Region P, is seeking input on the Scope of Work and Budget for Second Biennium Funding for preparation of the 2011 Regional Water Plan. Written and oral comments regarding the scope of work will be taken at a Public Meeting at 1:30 p.m. on Monday, May 19, 2008 in the Meeting Room of the Lavaca Navidad River Authority Office Complex, 4631 FM 3131, located approximately seven (7) miles east of Edna, Jackson County, Texas off FM 3131.

NOTICE IS ALSO GIVEN that the Lavaca Navidad River Authority (LNRA) as the designated political subdivision for the Region P Group will submit on or before June 13, 2008, a grant application for financial assistance to the Texas Water Development Board (TWDB) on behalf of the LRWPG (Region P) to carry out the scope of work.

Copies of the application may be obtained from LNRA at the address below when it become available. Written comments regarding the grant application must be submitted to the LRWPG (Region P) by 5:00 p.m. on May 16, 2008 and J. Kevin Ward, Executive Administrator, TWDB, P. O. Box 13231, Austin, TX 78711-3231. For further questions or additional information please contact: Patrick Brzozowski, General Manager, Lavaca Navidad River Authority, P.O. Box 429, Edna, Texas 77957, telephone (361)782-5229 or email pbrzozowski@Inra.org. The State of Texas, County of Victoria

Before me, the undersigned authority, on this day personally appeared, Sandra Rodriguez who being by me duly sworn, states on oath that she is the Classified Bookkeeper of the Victoria Advocate, a newspaper published in Victoria, Victoria County, Texas and generally circulated in Bee, Calhoun, Colorado, Dewitt, Fayette, Goliad, Gonzales, Jackson, Karnes, Lavaca, Matagorda, Refugio, Wharton & Victoria Counties, that the attached printed notice in the case <u>LAVACA - NAVIDAD RIVER AUTHORITY</u>

ORDER#237931

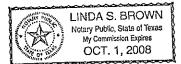
was published in the Victoria Advocate on the following dates:

APRIL 15, 2008

anda Podregu

SANDRA RODRIGUEZ CLASSIFIED BOOKKEEPER

Sworn to and subscribed before me 15TH day of APRIL, 2008



Notary Public in and for Victoria County, Texas

Notice of Public Meeting

NOTICE IS HEREBY GIVEN that the Lavaca Regional Water Planning Group, Region P, is seeking input on the Scope of Work and Budget for Second Bi-Work and Budget for Second Bi-ennium Funding for preparation of the 2011 Regional Water Plan. Written and oral com-ments regarding the scope of work will be taken at a Public Meeting at 1:30 p.m. on Mon-day, May 19, 2008 in the Meet-ing Room of the Lavaca Navidad River Authority Office Complex, 4631 FM 3131, located approxi-mately seven (7) miles east of Edna, Jackson County, Texas off FM 3131. NOTICE IS ALSO GIVEN that

Edna, Jackson County, Texas off FM.3131 NOTICE IS ALSO GIVEN that the Lavaca Navidad River Au-thonity (LNRA) as the designated political subdivision for the Re-gion P Group will submit on or before June 13, 2008, a grant application for financial assis-tance to the Texas Water Devel-opment Board (TWDB) on be-half of the LRWPG (Region P) to carry out the scope of work. Copies of the application may be obtained from LNRA at the ad-dress below when it become available. Written comments re-garding the grant application must be submitted to the LRWPG (Region P) by 5:00 p.m. on May 16, 2008 and J. Kevin Ward, Executive Administrator, TWDB, P.O. Box 13231, Austin, TX 787113231. For further questions or additional informa-tion please contact: Patrick Brzozowski, General Manager, Lavaca Navidad River Authority. Lavaca Navidad River Authority, P.O. Box 429, Edna, Texas 77957, telephone (361)782 5229 or emai email pbrzozowski@inra.org.

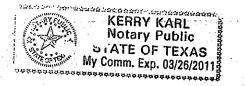
PUBLISHER'S AFFIDAVIT

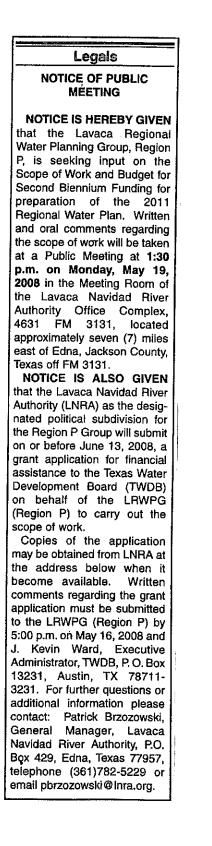
STATE OF TEXAS COUNTY OF JACKSON

Personally appeared before the undersigned, a notary public within and for said County and State, Jim Moser, Editor-Publisher of THE JACKSON COUNTY HERALD-TRIBUNE a newspaper have general circulation in Jackson County, Texas, who, being duly sworn, states on oath that the foregoing attached notice was published in said newspaper on the following date(s), to wit:

Jim Moser, Editor-Publisher

1108 day of \mathcal{U} Subscribed and sworn to me before this. to certify which witness my hand and seal of office.





Lavaca-Navidad River Authority Notice of Public Hearing

STATE OF TEXAS

COUNTY OF WHARTON

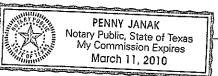
Before me, the undersigned authority, on this day personally appeared **Chris Barbee**, the managing editor of the **El Campo Leader-News**, a newspaper having general circulation in Wharton County, Texas, who being by me duly sworn, deposes and says that the foregoing attached notice was published in said newspaper on the following date(s), to wit:

April 16

Subscribed and sworn to before me this

The 16thday of <u>April, 2008</u>. to certify which witness my hand and seal of office.

Chris Barbee, Publisher



anak Penny Jarlak

Notary Public in and for Wharton County, Texas

Notice of Public Meeting NOTICE IS HEREBY GIVEN that the Lavaca Regional Water Planning Group, Region P, is seeking input on the Scope of Work and Budget for Second Biennium Funding for preparation of the 2011 Regional Water Plan. Written and oral comments regarding the scope of work will be taken at a Public Meeting at 1:30 p.m. on Monday, May 19, 2008 in the Meeting Room of the Lavaca Navidad River Authority Office Complex, 4631 FM 3131, located approximately seven (7) miles east of Edna, Jackson County, Texas off FM 3131. Notice is also given that the Lavaca Navidad River Authority (LNRA) as the designated political subdivision for the Region P Group will submit on or before June 13, 2008, a grant application for financial assistance to the Texas Water Development Board (TWDB) on behalf of the LRWPG (Region P) to carry out the scope of work. Copies of the application may be obtained from LNRA at the address below when it become available. Written comments regarding the grant application must be submitted to the LRWPG (Region P) by 5:00 p.m. on May 16, 2008 and J. Kevin Ward, Executive Administrator, TWDB, P. O. Box 13231, Austin, TX 78711-3231, For further questions or additional information please contact: Patrick Brzozowski, General Manager, Lavaca Navidad River Authority, P.O. Box 429, Edna, Texas 77957, telephone (361)782-5229 or email

AFFIDAVIT OF PUBLICATION STATE OF TEXAS

COUNTY OF LAVACA

Before me, the undersigned authority, on this day personally appeared

| Kristie Bludau | . the | General | Manager | |
|----------------|-------|---------|---------|--|
| (Name) | | (TITLE) | | |

of Hallettsville Tribune-Herald, a newspaper having general circulation in Lavaca County, Texas, who being by me duly sworn, deposes and says that the foregoing attached advertising was published in said newspaper on Wednesday, April 16, 2008 the following date(s), to wit:_____

Notice of Public Meeting - Lavaca Navidad River Authority

Print Name

5th ___ day of _ May, 2008 Subscribed and sworn to before me this the

to certify which witness my hand and seal of office.

and for Lavaca County,

Hallettsville Tribune-Herald

Wednesday, April 16, 2008

NOTICE OF PUBLIC MEETING

NOTICE IS HEREBY GIVEN that the Lavaca Regional Water Planning Group, Region P, is seeking input on the Scope of Work and Budget for Second Biennium Funding for preparation of the 2011 Regional Water Plan. Written and oral comments regarding the scope of work will be taken at a Public Meeting at 1:30 p.m. on Monday, May 19, 2008 in the Meeting Room of the Lavaca Navidad River Authority Office Complex, 4631 FM 3131, located approximately seven (7) miles east of Edna, Jackson County, Texas off FM 3131.

NOTICE IS ALSO GIVEN that the Lavaca Navidad River Authority (LNRA) as the designated political subdivision for the Region P Group will submit on or before June 13, 2008, a grant application for financial assistance to the Texas Water Development Board (TWDB) on behalf of the LRWPG (Region P) to carry out the scope of work.

Copies of the application may be obtained from LNRA at the address below when it become available. Written comments regarding the grant application must be submitted to the LRWPG (Region P) by 5:00 p.m. on May 16, 2008 and J. Kevin Ward, Executive Administrator, TWDB, P. O. Box 13231, Austin, TX 78711-3231. For further questions or additional information please contact: Patrick Brzozowski, General Manager, Lavaca Navidad River Authority, P.O. Box 429, Edna, Texas 77957, telephone (361)782-5229 or email pbrzozowski@inra.org.

STATE OF TEXAS COUNTY OF WHARTON

Before me, the undersigned authority, on this day personally appeared <u>Frances M. Deiterich</u>, the <u>Office Manager</u> of the <u>East Bernard Express</u>, (TITLE) (NAME OF NEWSPAPER) a newspaper having general circulation in Wharton County, Texas, who being by me duly sworn, deposes and says that the foregoing attached notice was published in said newspaper on the following dates, to wit: <u>April 17, 2008.</u>

Francer Un Datesich

Subscribed and sworn to before me this the <u>_____8th</u> day of <u>April</u>, 2008, to certify which witness my hand and seal of office.



en A. Somos

Notary Public in and for <u>Wharton</u> County, Texas

Thursday, April 17, 2008

NOTICE OF PUBLIC MEETING

NOTICE IS HEREBY GIVEN that the Lavaca Regional Water Planning Group, Region P, is seeking input on the Scope of Work and Budget for Second Biennium Funding for preparation of the 2011 Regional Water Plan. Written and oral comments regarding the scope of work will be taken at a Public Meeting at 1:30 p.m. on Monday, May 19, 2008 in the Meeting Room of the Lavaca Navidad River Authority Office Complex, 4631 FM 3131, located approximately seven (7) miles east of Edna, Jackson County, Texas off FM 3131.

NOTICE IS ALSO GIVEN that the Lavaca Navidad River Authority (LNRA) as the designated political subdivision for the Region P Group will submit on or before June 13, 2008, a grant application for financial assistance to the Texas Water Development Board (TWDB) on behalf of the LRWPG (Region P) to carry out the scope of work.

Copies of the application may be obtained from LNRA at the address below when it become available. Written comments regarding the grant application must be submitted to the LRWPG (Region P) by 5:00 p.m. on May 16, 2008 and J. Kevin Ward, Executive Administrator, TWDB, P. O. Box 13231, Austin, TX 78711-3231. For further questions or additional information please Patrick Brzozowski, contact: General Manager, Lavaca Navidad River Authority, P.O. Box 429, Edna, Texas 77957, telephone (361)782-5229 or email pbrzozowski@Inra.org.

This notice was published in the East Bernard Express on Thursday, April 17, 2008.

STATE OF TEXAS COUNTY OF WHARTON

Before me, the undersigned authority, on this day personally appeared <u>Frances M. Deiterich</u>, the <u>Office Manager</u> of the <u>Wharton Journal-Spectator</u> (TITLE) of the <u>Wharton Journal-Spectator</u> (NAME OF NEWSPAPER) a newspaper having general circulation in Wharton County, Texas, who being by me duly sworn, deposes and says that the foregoing attached notice was published in said newspaper on the following dates, to wit: <u>April 16, 2008.</u>

Frances Milletterich

Subscribed and sworn to before me this the 8^{th} day of May, 2008, to certify which witness my hand and seal of office.



Notary Public in and for <u>Wharton</u> County, Texas

NOTICE IS ALSO GIVEN that the Lavaca Navidad River Authority Lavaca Navidad River Authority (LNRA) as the designated political subdivision for the Region P Group will submit on or before June 13, 2008, a grant application for financial assistance to the Texas Water Development Board (TWDB) on behalf of the LRWPG (Region P) to carry out the scope of work. Copies of the application may be obtained from LNRA at the address below when it become available. Written comments regarding the grant application must be submitted to the LRWPG (Region P) by 5:00 p.m. on May 16, 2008 and J. Kevin Ward, Executive Administrator, TWDB, P. O. Box 13231, Austin, TX 78711-3231. For further questions or additional information please contact: Patrick Brzozowski, Manager, Lavaca General Navidad River Authority, P.O. Box 429, Edna, Texas 77957, telephone (361)782-5229 or email pbrzozowski@lnra.org. This notice was published in the

Wharton Journal-Spectator on Wednesday, April 16, 2008.

Mailouts to Public Utilities

| Name | City |
|---------------------------------------|---------------|
| Aquasource Utility, Inc | Pflugerville |
| Bernard Timbers WSC | East |
| Boling Municipal Water | Boling |
| Cape Carancahua WSC | Palacios |
| City of Edna | Edna |
| City of El Campo | El Campo |
| City of Ganado | Ganado |
| City of Hallettsville | Hallettsville |
| City of LaWard | LaWard |
| City of Moulton | Moulton |
| City of Shiner | Shiner |
| City of Wharton | Wharton |
| City of Yoakum | Yoakum |
| D & S Water Service | Houston |
| Enchanted Harbor Utility | El Campo |
| Hungerford MUD 1 | Hungerford |
| Isaacson MUD | El Campo |
| Jackson County WCID 1 | Lolita |
| Jackson County WCID 2 | Vanderbilt |
| LaSalle Landing Water System | Edna |
| Porto Alto Investment | El Campo |
| Southwest Utilities, Inc. | El Campo |
| Tri-County Point Property Association | Palacios |
| Walker Water Works, Inc | El Campo |
| Wharton County WCID 1 | Louise |
| Wharton County WCID 2 | East |

| Name | City |
|----------------------------------|---------------|
| J K Allen Estate | El Campo |
| J K Allen Estate | El Campo |
| T J Babb Heirs Revocable Trust | Victoria |
| Carl B Bain | Louise |
| Jack Birkner Et Ux | El Campo |
| Jack Birkner Et Ux | El Campo |
| Matt J Bozka | Hallettsville |
| Anton Brandl Jr Et Ux | El Campo |
| Mark & Charlotte Defriend | Louise |
| El Rancho De Los Patos Inc | Louise |
| El Rancho De Los Patos Inc | Louise |
| Formosa Plastics Corp Tx | La Ward |
| Formosa Plastics Corp Tx | La Ward |
| E G Goff Et Al | Louise |
| Kathleen Halamicek | El Campo |
| Eva Ruth Hancock Et Al | El Campo |
| Jackson County | Edna |
| Jackson County | Edna |
| Francis Koop | Cedar Park |
| Johnnie E Kotlar | Edna |
| Lavaca-Navidad River Authority | Edna |
| John B Lay Et Al | Austin |
| John E Leavesley Et Al | Kemah |
| Robert Martin Et Al | Edna |
| Alan Wayne Meek | El Campo |
| Brian Nelson Meek | El Campo |
| Dale Charles Meek | Sugar Land |
| Gary Kenneth Meek | Stillwater |
| City Of Moulton | Moulton |
| Vlasta Mraz | Shiner |
| Mustang Exploration Co Inc | Louise |
| William J Naiser & Jerome Naiser | El Campo |
| Pin Oak Farms 2 | Louise |
| Pnl Ranch Lp | Dallas |
| Norris Raun | El Campo |
| Travis Norris Raun Et Al | El Campo |
| Richard W Mann Jr Et Al | Pearland |
| John L & Susan H Richards & | El Campo |
| E T Rose Estate | Edna |

Mailouts to Water Rights Holders

| Name | City |
|-------------------------------|------------|
| Gregory Paul Schmidt Et Al | Louise |
| William R Seifman Et Ux | Montgomery |
| M T Simons Jr Et Al | Edna |
| Harrison Stafford Et Al | Edna |
| Harrison Stafford li Et Al | Edna |
| Harrison Stafford Ii Et Al | Edna |
| Albert W & Claudia P Swenson | Ganado |
| Brian M Swenson Et Al | El Campo |
| T-Bar-D Llc | Cypress |
| Eva Reigh Tucker | Louise |
| Gebrueder Viehof Farms Ohg | Edna |
| Harry E Vitera | El Campo |
| Edmund A Weinheimer lii Et Al | El Campo |
| Edmund A Weinheimer Jr | El Campo |
| Edmund A Weinheimer Jr | El Campo |
| Gaynard & Elaine Wigginton | El Campo |

| Name | Title | Political Area | City |
|---------------------|--------------|-----------------------|---------------|
| Harrison Stafford | County Judge | Jackson County | Edna |
| Warren Grindeland | Mayor | City of Hattettsville | Hallettsville |
| Laura Watzlavick | Mayor | City if Shiner | Shiner |
| Clinton Tegeler | Mayor | City of Ganado | Ganado |
| John Wesley Murrile | County Judge | Wharton County | Wharton |
| Bryan Kocian | Mayor | City of Wharton | Wharton |
| Randy Collins | Mayor | City of El Campo | El Campo |
| Joel Hunt | Mayor | City of LaWard | LaWard |
| Ronald L Leck | County Judge | Lavaca County | Hallettsville |
| Joe Hermes | Mayor | City of Edna | Edna |
| Anita Rodriquez | Mayor | City of Yoakum | Yoakum |
| Kathy Koranek | Mayor | City of Moulton | Moulton |

Mailouts to City Mayors and County Judges

| Name | Region | Affiliation | City |
|--------------------|--------|-----------------------------------------|---------------|
| C. E. Williams | А | Panhandle GWCD | White Deer |
| Curtis Campbell | В | Red River Authority | Wichita Falls |
| Jim Parks | С | North Texas Municipal Water District | Wylie |
| Jim Thompson | D | - | Atlanta |
| Tom Beard | E | - | Alpine |
| John Grant | F | Colorado River Municipal Water District | Big Spring |
| Scott Mack | G | Mack & Cholopisa, DDS | Mexia |
| Jeff Taylor, P.E. | Н | Sity of Houston Department of PWE | Houston |
| Kelley Holcomb | | Angelina and Neches River Authority | Lufkin |
| Jonathan Letz | J | Kerr County | Kerrville |
| John Burke | K | Aqua Water Supply Corporation | Bastrop |
| Con Mims | L | Nueces River Authority | Uvalde |
| Glenn Jarvis | М | - | McAllen |
| Scott Bledsoe, III | Ν | Live Oak Underground WCD | Oakville |
| Harold P. Bo Brown | 0 | Texas Cattle Feeders | Lubbock |

Mailouts to Regional Planning Groups