

Exhibit C
Scope of Work
Region B Regional Water Planning Group

2007 – 2009 Regional Water Planning

STUDY 1: ADMINISTRATIVE AND PUBLIC PARTICIPATION ACTIVITIES

The primary objective of this study is to maintain the integrity of the Regional Water Planning Group and the general public by providing oversight to the projects listed in this application. In addition, this study includes any review of the technical feasibility of any requests for an amendment to the 2006 Regional Water Plan for Area B. Data received from the applicant will be reviewed to insure that the proposed amendment does not interfere with other adopted management strategies and is consistent with regional goals. A recommendation of approval or disapproval will be made to the Regional Water Planning Group for its consideration.

Other activities conducted under this study will be the development of a Scope of Work and Contract preparation for the first phase of the third round of planning for Region B.

Public participation activities performed under this project will include holding public meetings as required, notifications of meetings, preparing and providing meeting materials and maintaining the Regional Water Planning Group – Area B website. In addition, providing assistance to any planning group member or the general public in obtaining any water planning information, planning topics, long range objectives and proposed legislative and/or policy changes to future water planning activities will be included under this study.

Task 1 – Administrative Activities

This task will include all administrative activities for oversight of the studies described in this application.

Task 2 – Scope of Work and Contract Preparation

This task will include all work performed for the development of the Scope of Work for Phase I of the third round of **regional water planning**.

Task 3 – Public Participation Activities

This task will cover all activities involved with notification of meetings, meeting materials, holding public meetings, website maintenance, as well as providing assistance to any planning group member or the general public in obtaining water planning information.

Deliverables for this Project Include:

- ▶ Quarterly Progress Reports with the status of each task and subtask and Reimbursement Requests
- ▶ Conduct a Minimum of Four Public Meetings
- ▶ Maintain Regional Water Planning Group – Area B Web Page;
- ▶ Maintain and Distribute Meeting Minutes and Public Information
- ▶ Develop and Maintain Contract with Texas Water Development Board

TOTAL BUDGET FOR PROJECT 1.....\$33,400

STUDY 2: WICHITA COUNTY WATER IMPROVEMENT DISTRICT NO. 2 IRRIGATION PROJECT WATER CONSERVATION IMPLEMENTATION PLAN

This proposed study would facilitate the implementation of the recommendations in the Region B Plan with respect to meeting irrigation needs in the region. A Water Conservation Implementation Plan will be developed based on the findings of the study of the District conveyance system. The proposed study will include the following primary activities:

Task 1 – Identify and Evaluate Candidate Laterals and Establish Criteria and Methods for the Implementation Plan

This task will include establishing the criteria needed for identifying conveyance system laterals that have the greatest potential for water savings; determining the most appropriate laterals for consideration and performing necessary evaluations of the identified laterals. Such evaluations will include volume of water conveyed through the laterals, the amount of water lost through spilling at the end of the lateral, soil conditions, vegetal growth in the laterals during the irrigation period, and degree of urbanization (current and future potential) along the route of the laterals. Determinations of water usage and loss in the laterals will be estimates based on irrigation district records and on visual observations, since the laterals are not metered for flow measurements.

This task will also include developing procedures for estimating potential water savings, procedures for preparing preliminary opinions of cost, and criteria that will be used in later tasks for ranking the laterals to be enclosed in pipe. The ranking criteria will include cost, amount of water saved, and likelihood of receiving outside funding. However, other criteria may need to be considered as well, and will be identified in this task.

The most likely laterals for inclusion in the implementation plan include the major laterals within the system that ultimately spill into the Wichita River. An estimated 10 to 12 laterals in the system will be considered. Each will be characterized with respect to whether it discharges excess water or is a dead-end canal. An associated database would be developed for the laterals that discharge. Elements of the database include, length of lateral, water volume delivered, water delivery schedules, land ownership along banks, and slope and other relevant information. Global positioning system (GPS) coordinates of relevant features of the laterals will be obtained, as necessary. It may also be useful to identify whether an area served by laterals is experiencing urbanization, as the future use of a lateral may be affected by such urbanization. The results of this task will be tabularized and summarized in a technical memorandum.

Deliverable for this Task Includes:

- ▶ A Technical Memorandum presented to the RWPG-B

Task 2 – Prepare Maps of Selected Laterals

In this task, geographic information system (GIS) maps will be prepared of the conveyance system laterals that have the greatest potential for water savings. Information about the laterals

acquired in Task 1 will be incorporated into the GIS maps to the extent practical. Other relevant mapping information may also be included, such as land use and soil types. District representatives will review drafts of the GIS maps. The maps will be finalized based on comments from the District.

Deliverable for this Task Includes:

- ▶ GIS Maps of the Conveyance System

Task 3 – Estimate Potential Water Savings

Using procedures established in Task 1, an estimate of potential water savings that would be associated with replacing the open ditch with a pipe will be prepared for each of the mapped discharge laterals.

Deliverable for this Task Includes:

- ▶ A Technical Memorandum presented to the RWPG-B

Task 4 – Prepare Preliminary Opinions of Cost

This task includes preparing preliminary opinions of cost, which will be prepared in accordance with the updated requirements of the TWDB Exhibit B, for the design and construction of each identified lateral. The maps and information will be reviewed in order to provide sufficient engineering information for the estimation of costs.

Deliverable for this Task Includes:

- ▶ A Technical Memorandum presented to the RWPG-B

Task 5 – Document Other Relevant Factors

In this task, factors not addressed in earlier supplemental work, that may be relevant to decisions about enclosing laterals in pipe will be documented. These factors may include the degree of encroaching urbanization into areas currently served by laterals, the potential for other sources of available water for irrigation, and other relevant socio-economic and environmental factors.

Deliverable for this Task Includes:

- ▶ A Technical Memorandum presented to the RWPG-B

Task 6 – Identify Potential Sources of Funding for the Project to Pipe Laterals

Potential sources of grants, loans, and other funding will be investigated in this task. This will include research into available sources from the state and federal governments. If relevant,

potential sources of funding from local sources, such as developers, may also be investigated. Specific applicable funding sources that are available at the time of the project will be identified.

Deliverable for this Task Includes:

- ▶ A Technical Memorandum presented to the RWPG-B

Task 7 – Prepare Water Conservation Implementation Plan

In this task, the candidate laterals will be ranked based on cost-effectiveness (i.e., the amount of water saved in relation to the cost of installing pipes), and other factors established in prior tasks. In addition, a Water Conservation Implementation Plan will be prepared that utilizes the ranking as a basis for establishing a preliminary schedule for enclosing laterals in pipe.

The laterals will be ranked in accordance with procedures established in Task 1. The District will review and comment on the draft ranking. The ranking will be finalized based on comments from the District. Using these rankings as a basis, a Water Conservation Implementation Plan will be prepared. This plan will provide guidance to the District in scheduling projects to enclose laterals in pipe and guide the RWPG – Area B in future regional water planning efforts.

The Water Conservation Implementation Plan will assist the District to establish and implement a specific plan of action for reducing water losses. The Plan will result in the implementation of the most cost-effective actions first. Design and construction costs will be planned for and scheduled based on the availability of funds for piping projects.

Prepare a draft and final report to include the following sections: executive summary, purpose of study including how the study supports regional water planning, methodology, results, and recommendations, if applicable. Draft report will be submitted to the planning group and the TWDB for review and comment. All comments will be addressed in the final report. Report will be prepared to include all technical memoranda, maps, and other deliverables produced for previous tasks, and will be considered the draft final report.

The report will be submitted per TWDB requirements and results from this study will be included in the 2011 Region B Regional Water Plan. The development, analysis, and reporting of results will follow methodologies and guidance according to Exhibit B, and agency rules.

Task 8 – Quarterly Project Progress Reports

In addition to the Technical Memoranda that will be prepared pursuant to each task, a quarterly progress report will be provided to the RWPG-B.

Deliverables for this Task Include:

- ▶ Progress reports presented to the RWPG-B once each quarter during the project (except for the end of the project when the Water Conservation Implementation Plan will be prepared in lieu of the quarterly report). It is estimated that three quarterly reports will need to be prepared.

TOTAL BUDGET FOR STUDY 2.....\$139,600