



Water Utilities

Strategic Water Supply Plan

City of Lubbock
July 26, 2007





Water Utilities

July 16, 2007

Dear Mayor, City Council and Lubbock Water Advisory Commission:

With this cover letter I submit to you the Strategic Water Supply Plan for the City of Lubbock. The City of Lubbock has a goal to develop and approve a strategic water supply plan for the next 100 years. This goal is essential in order to ensure that the City has a sufficient supply of water. The plan represents over three years of work by the Lubbock Water Advisory Commission, by professional engineers, and by City staff.

As you consider the planning documents, please recognize first that Lubbock has had sufficient professional planning in the past to project future needs, and the City now needs to take full advantage of the information contained in those reports to prepare for the future. Today the City has enough water to meet current needs; however, additional supplies are necessary because we are at capacity. Pushing existing supplies to meet the growing need for water will jeopardize the future of essential groundwater supplies.

The purpose of planning is to ensure that additional water supplies are available before the need arises. The purpose of water supply planning is to make the best use of available water supply resources now while developing of the most cost effective and reasonable water supply alternatives for the future. Your comments, questions and suggestions will be most helpful as the plan continues to progress and focus on the necessary steps to ensure that the City's water supply is sufficient to ensure Lubbock's future.

To assist with that effort, city staff developed in June of 2005 a Water Supply Plan and Report. This report indicated that Lubbock may need a new water supply by 2012 rather than 2050. Following the completion of that Plan, a Water Planning Statement was drafted and approved by the Lubbock Water Advisory Commission in September 2005 and by the City Council in October of 2005. Following the adoption of the Water Planning Statement in 2005, city staff worked with the Region O Water Planning Group to have the projects outlined in the City's Plan included in the Region O and State water plans.

Within six months of the adoption of the Water Planning Statement, the Lubbock Water Advisory Commission recommended that the Preliminary Engineering for Lake Alan Henry begin. The contract for these services was approved by the City Council with Parkhill, Smith and Cooper on August 24, 2006. Lake Alan Henry infrastructure includes the following: about 65 miles of raw water transmission lines, two to three pump stations, a water treatment facility, and water distribution system improvement to connect to and distribute the new water source. The Water Commission and City Council expressed concern that the Lake Alan Henry Project move forward so that it could be completed by 2012 if necessary.

The Statement has been updated and serves as the core policy statement in the Strategic Water Supply Plan. The Strategic Water Planning Statement will not only help define the City's goals for a 100 year water supply, it will also serve as a guide for engineering services, water permit applications, and for project development and construction.

The Strategic Water Supply Plan includes many water supply planning materials. As mentioned before, the "Strategic Water Planning Statement" which sets the direction for all related goals, objectives, programs, activities and efforts, is at the front of this document. A water supply planning model has been developed and is included for your consideration. The model takes into account a number of important assumptions in order to project water supply needs. Selections of past water supply plans have been included to show a history of water planning. Details on various water supply projects and related issues have also been included.

The Lubbock Water Advisory Commission recommended that water supplies from Lake Alan Henry need to be supplemented to help justify the expense of the infrastructure. Developed water that comes from the City's storm system and the higher quality reclaimed water, can be used as a source to supplement Lake Alan Henry. One of the next major steps in the planning process will be to select the option or options to supplement Lake Alan Henry. The Strategic Water Planning Statement identifies and begins the process of evaluating these options, and more detailed information on each option is included in this plan binder. The options include the following:

1. **Post Reservoir** – capture and store developed water in the North Fork for use.
2. **Canyon Lake #7** - capture and store developed water in the North Fork for use.
3. **Pipeline for South Fork Discharge** – pump only reclaimed water to a tributary of the South Fork so it can be captured and stored for use in Lake Alan Henry.
4. **Scalping Operation on the North Fork** – capture some portion of developed water from the North Fork and pump it to Lake Alan Henry for storage.

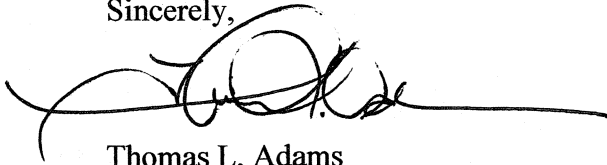
Since some projects could take 20 plus years to develop, preliminary efforts need to begin in the near future on the option or options selected. Some due diligence steps may be in order to move the options forward since this supplement may be needed within the next 20 to 30 years. As an example, a Letter of Intent has been recommended as the Lubbock Water Advisory Commission to negotiate with the White River Municipal

Water District for the Post Reservoir Permit. The City commits to complete due diligence steps while negotiating with the District.

Long term alternatives are also identified. Planning for CRMWA is now underway and that may result in a CMRWA II project for member cities. Test projects involving the Dockum Aquifer are under consideration to treat brackish water for reuse. The planning process needs to continue to explore new alternatives in order to ensure Lubbock has water for the current and future needs of a growing city.

I would like to thank the City Council for their support of the water planning effort. Your commitment to this process has helped move the City's water supply plans ahead. I especially express my thanks to the Lubbock Water Advisory Commission. They have worked diligently and tirelessly now for a number of years to see that Lubbock has and is moving forward with a water supply plan. I also appreciate the water staff that has assisted with the gathering and preparation of these materials.

Sincerely,

A handwritten signature in black ink, appearing to read 'T. Adams', is written over a horizontal line. The signature is stylized and cursive.

Thomas L. Adams
Deputy City Manager



Office of Water Utilities

Strategic Water Supply Plan 2007

May 1, 2007

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