Texas Water Development Board

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TO: Board Members

THROUGH: Jeff Walker, Executive Administrator
Todd Chenoweth, General Counsel
Rebecca Trevino, Chief Financial Officer

FROM: Richard A. Wade, Deputy Executive Administrator, TNRIS

DATE: November 7, 2019

SUBJECT: Budget Approval for the North and Central Texas Regions Lidar Project

ACTION REQUESTED

Consider authorizing the Executive Administrator to execute multiple contracts in a total amount not to exceed $1,500,000, using the Strategic Mapping Program and their associated contracts at the Texas Department of Information Resources.

BACKGROUND

Lidar is a remote sensing technology that uses aircraft to collect three-dimensional (3D) data of the earth's surface. Lidar data provides an engineering grade level of accuracy and serves the needs of most economic development and emergency planning activities.

Example uses include:

- Coastal area flood and hurricane storm surge modeling
- Flood Inundation modeling
- Pipeline, transmission, and transportation corridor planning
- Urban and regional economic development
- Watershed modeling
- Facility siting

The Texas Natural Resources Information System (TNRIS), a division of the Texas Water Development Board (TWDB), is managing this Lidar acquisition for Texas.

North and Central Texas Regions Lidar Project:
This project represents a consortium of financial partners from state, regional, and local governments. It will potentially capture over 6,500 square miles in the north and central regions of Texas where existing data is approaching eight years old. The existing data in

Our Mission
To provide leadership, information, education, and support for planning, financial assistance, and outreach for the conservation and responsible development of water for Texas

Board Members
Peter M. Lake, Chairman | Kathleen Jackson, Board Member | Brooke T. Paup, Board Member

Jeff Walker, Executive Administrator

this area do not meet current federal quality specifications with regard to date and accuracy.

Additional parties(federal and local agencies) are still interested in participating. We are currently awaiting final decision regarding additional partners' capacity and intent to contribute to the project.

Participating Partners:	Texas Parks and Wildlife Department City of Marble Falls Texas Water Development Board
Total Cost for TWDB:	Not to exceed $1,500,000
Total project cost:	Pending competetive bids; estimated not to exceed $1,500,000

Lidar acquired from this project will be used for floodplain management and planning, feature extraction, water quality modeling, stream restoration potential analysis, change detection, 9-1-1, wildfire mitigation, hurricane recovery and planning efforts, subsidence research, and habitat identification/modeling for endangered species.

KEY ISSUES

TNRIS/TWDB is currently awaiting final decisions from federal and local partners on their ability to participate on this project.

RECOMMENDATION

The Executive Administrator recommends approving the execution of multiple contracts in a total amount not to exceed $1,500,000, using the Strategic Mapping Program and their associated contracts at the Texas Department of Information Resources for supporting TWDB and state-related elevation data requirements.