

**Monthly Letter Progress Report #16:  
Period 10, Fiscal Year 2017  
Study of Brackish Aquifers in Texas –  
Project No. 4 –Trinity Aquifer  
TWDB Contract No. 1600011950**

*Submitted to*

Texas Water Development Board  
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**Monthly Letter Progress Report #16**  
**June 10, 2017 – July 7, 2017**  
**Study of Brackish Aquifers in Texas – Project No. 4 –**  
**Trinity Aquifer**  
**TWDB Contract No. 1600011950**

**1.0 Budget and Expenses**

This report summarizes the project status and costs for the billing period from Contract Approval Date (January 6, 2016) through the end of Period 10 of Fiscal Year 2017 (July 7, 2017). The total expenses through this period are \$323,587.65. A copy of the progress report has been sent to Texas Water Development Board (TWDB) along with the monthly invoice.

**2.0 Progress on Tasks**

This report summarizes activities on project tasks during Fiscal Year 2017, Period 10 (encompassing June 10, 2017-July 7, 2017) and represents the sixteenth progress report on this contract.

**Task 1: Project Management**

No work was performed on this task during this reporting period.

**Task 2: Data Acquisition and Method Development**

Task 2 has been subdivided into four subtasks. Progress on activities for the subtasks is as follows:

**Subtask 2.1 Acquisition and Initial Analysis of Groundwater Samples**

Work on this subtask has been completed.

**Subtask 2.2 Acquisition and Initial Analysis of Geophysical Logs**

Work on this subtask has been completed.

**Subtask 2.3 Develop Technical Approach for Estimating Total Dissolved Solids from Geophysical Logs**

Work on this subtask has been completed.

Subtask 2.4 Use Geophysical Log Interpretation to Analyze Stratigraphy and Map Fresh, Brackish, and Saline Groundwater

Work on this subtask has been completed.

**Task 3: Develop a Stratigraphic Framework Model of the Trinity Aquifer and Calculate Brackish Water Volumes**

Task 3 has been subdivided into two subtasks. Progress on activities for the subtasks is as follows:

Subtask 3.1 Extend Stratigraphy for the Hill Country Trinity

Work on this subtask has been completed.

Subtask 3.2 Determine Volumes of Fresh, Brackish, and Saline Groundwater

Work on this subtask has been completed.

**Task 4: Delineate Potential Production Areas**

Work on this subtask has been completed.

**Task 5: Determine the Amount of Brackish Groundwater that can be Produced without Causing Impact on Lateral and Vertical Fresh Water**

Work on this subtask has been completed.

**Task 6: Stakeholder Communication**

No work was performed on this subtask during this reporting period.

**Task 7: Reporting**

Task 7 has been subdivided into 2 subtasks. Progress on the subtasks is as follows:

Subtask 7.1 Project Monitoring Procedures

The project timeline has been reviewed frequently. The project budget has been monitored on a weekly basis using the SwRI Project Cost System. Project activity for each period is summarized in status reports for review by TWDB.

Subtask 7.2 Project Deliverables

Progress on this task during this reporting period has included preparing and delivering “Monthly Letter Progress Report #15: Period 9, Fiscal Year 2017.”

Work on the Draft Final Report was completed, and the Draft Final Report and associated data deliverables were delivered to TWDB.

### **3.0 Planned Activities for the Next Reporting Period (Fiscal Year 2017, Period 10)**

#### **Task 1: Project Management**

The agreements with the two in-kind teaming partners, EAA and BSEACD, will be submitted to TWDB as soon as they have been finalized.

#### **Task 2: Data Acquisition and Method Development**

Task 2 has been subdivided into four subtasks. Planned activities for the subtasks are as follows:

##### **Subtask 2.1 Acquisition and Initial Analysis of Groundwater Samples**

Work on this subtask has been completed; no work on this task is expected to occur over the next reporting period.

##### **Subtask 2.2 Acquisition and Initial Analysis of Geophysical Logs**

Work on this subtask has been completed; no work on this task is expected to occur over the next reporting period.

##### **Subtask 2.3 Develop Technical Approach for Estimating Total Dissolved Solids from Geophysical Logs**

Work on this subtask has been completed; no work on this task is expected to occur over the next reporting period.

##### **Subtask 2.4 Use Geophysical Log Interpretation to Analyze Stratigraphy and Map Fresh, Brackish, and Saline Groundwater**

Work on this subtask has been completed; no work on this task is expected to occur over the next reporting period.

#### **Task 3: Develop a Stratigraphic Framework Model of the Trinity Aquifer and Calculate Brackish Water Volumes**

Task 3 has been subdivided into two subtasks. Planned activities for the subtasks are as follows:

Subtask 3.1 Extend Stratigraphy for the Hill Country Trinity

Work on this subtask has been completed; no work on this task is expected to occur over the next reporting period.

Subtask 3.2 Determine Volumes of Fresh, Brackish, and Saline Groundwater

Work on this subtask has been completed; no work on this task is expected to occur over the next reporting period.

**Task 4: Delineate Potential Production Areas**

Work on this subtask has been completed; no work on this task is expected to occur over the next reporting period.

**Task 5: Determine the Amount of Brackish Groundwater that can be Produced without Causing Impact on Lateral and Vertical Fresh Water**

Work on this subtask has been completed; no work on this task is expected to occur over the next reporting period.

**Task 6: Stakeholder Communication**

No work is expected to occur over the next reporting period.

**Task 7: Reporting**

Task 7 has been subdivided into 2 subtasks. Planned activities for the subtasks are as follows:

Subtask 7.1 Project Monitoring Procedures

The project timeline will continue to be reviewed frequently. The project budget will continue to be monitored on a weekly basis using the SwRI Project Cost System. Project activity will continue to be summarized in status reports for review by TWDB.

Subtask 7.2 Project Deliverables

The sixteenth (current) progress report (covering Period 10, FY 2017) will be submitted to TWDB during Fiscal Year 2017, Period 11.

Team members will consider and incorporate feedback from TWDB regarding the Draft Methods Report as appropriate. The Final Report will be completed and submitted to TWDB.

#### **4.0 Problems/Issues and Actions Required/Taken**

No problems or issues were encountered during this period.