

**Monthly Letter Progress Report #17:
Period 11, Fiscal Year 2017
Study of Brackish Aquifers in Texas –
Project No. 4 –Trinity Aquifer
TWDB Contract No. 1600011950**

Submitted to

Texas Water Development Board
P.O. Box 13231
Austin, Texas 78711

Prepared by:



SOUTHWEST RESEARCH INSTITUTE®

Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238-5166
210-684-5111

August 18, 2017

Monthly Letter Progress Report #17
July 8, 2017 – August 4, 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 11 of Fiscal Year 2017 (August 4, 2017). 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 11 (encompassing July 8, 2017 – August 4, 2017) and represents the seventeenth 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 #16: Period 10, Fiscal Year 2017.”

Comments on the Draft Final Report were received from TWDB, and responses to those comments were incorporated into the Final Report.

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 seventeenth (current) progress report (covering Period 11, FY 2017) will be submitted to TWDB during Fiscal Year 2017, Period 12.

Team members will consider and incorporate feedback from TWDB regarding the Draft Final 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.