



## TWDB Progress Report for Contract 2000012405

Date: 5/29/2020  
To: Andrea Croskrey, Geoscientist Innovative Water Technologies (TWDB Project Manager)  
Erika Mancha, Manager Innovative Water Technologies  
From: Kristi Shaw PE (HDR Project Manager)  
Subject: TWDB Contract 2000012405 Progress Report for Invoice #2 (Reporting dates 03/29/20 through 04/25/20)

Work Completed:

### Task 1 - Literature Review

Subconsulting services (INTERA and GeoSystems Analysis) to include the following. See sub back-up for more details:

- compiling ASR studies nationally and in Texas;
- contributions to the master table listing ASR studies considered for this project;
- review of outline of proposed methodology for study; and
- response to TWDB comments, as needed.

Problems Encountered this period: None

### Task 2 - Hydrogeological Parameter Screening

Subconsulting services (INTERA) to include the following:

- attendance and participation in TWDB staff meeting on Mar 11, 2020 to discuss hydrogeological screening tool objectives and needs;
- began collecting hydrogeological parameters for the 31 major and minor aquifers;
- considered aquifer parameters affecting ASR and AR and identified key parameters (metrics) for evaluating ASR and AR suitability;
- identified data sources for key parameters and prepared detailed methodology for screening; and
- periodic coordination calls with HDR team lead.

Problems Encountered this period: None

### Task 3 - Excess Water Screening

Began development of detailed methodology to determine frequency, volume and duration from excess water available for storage for ASR or AR.

Prepared and submitted draft memo on April 10th for TWDB consideration to include draft approach, method, list of parameters for screening, data sources, assumptions and limitations.

Hosted virtual meeting with TWDB staff on April 24th to summarize approach and respond to questions.

QC of batch script for gathering unappropriated flow data for WAM control points and EPA ECHO data for wastewater return flows.

Obtained DB22 spreadsheets from TWDB staff regarding groundwater, reservoir, and run of river supply surpluses from 2021 Draft Regional Water Plans.

Coordination with sub (Collier) on approach for evaluating excess groundwater.

Problems Encountered this period: None

### Task 4 - Water Supply Needs Screening

Prepared and submitted draft memo on April 10th for TWDB consideration to include draft approach, method, list of parameters for screening, data sources, assumptions and limitations, and preliminary scoring.

Received TWDB staff comments on detailed methodology and approach (memo) on April 17th. Prepared responses to all comments for TWDB consideration.

Compiled native data and performed calculations to assimilate in Water Supply Needs screening tool geodatabase.

Problems Encountered this period: None

### Task 5 - Final Suitability Rating

No work completed in reporting period.

Problems Encountered this period: None



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### Task 6 - Public Data Display

No work completed in reporting period.  
Problems Encountered this period: None

### Task 7 - Draft and Final Report

No work completed in reporting period.  
Problems Encountered this period: None

### Task 8 - Project Management

Coordination with subconsultants. Project management.  
Prepared meeting notes for Mar 11, 2020 kick-off meeting with TWDB staff to discuss Hydrogeological Parameter screening tool (Task 2).  
Communication with TWDB staff to discuss progress, data requests, and other items as necessary. Preparation of detailed monthly progress report.  
Problems Encountered this period: None