

## PROGRESS REPORT

To: Olga Bauer, Work Order Project Manager, Texas Water Development Board

From: Daniel Lupton, Work Order Project Manager, INTERA

Date: January 13, 2020

Re: **TWDB Contract Number 2000012442 – Seismic Work Order**

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### Budget and Expenses

This report summarizes project activities and costs for the billing period of November and December 2020. The total billed expenses through December are \$15,270. A budget breakdown by task is provided in Table 1 below. A copy of the progress report will be included in our monthly invoice being sent to the TWDB contracts department. The Work Order Notice of Proceed was signed on November 5<sup>th</sup>, 2020.

Task	Description	Budget	Invoices			Remaining Budget
			Current	Previous	Total	
1	Literature Review	\$ 10,000	\$ 4,890	\$ -	\$ 4,890	\$ 5,110
2	Seismic Data Vendor Review	\$ 10,000	\$ 2,205	\$ -	\$ 2,205	\$ 7,795
3	Data Quality and Limitations	\$ 20,000	\$ 1,320	\$ -	\$ 1,320	\$ 18,680
4	Methodology for Application of Seismic data on Brackish Aquifers	\$ 40,000	\$ 2,865	\$ -	\$ 2,865	\$ 37,135
5	Apply Methodology to an Aquifer Study	\$ 70,000	\$ 3,990	\$ -	\$ 3,990	\$ 66,010
<b>Total</b>		<b>\$ 150,000</b>	<b>\$ 15,270</b>	<b>\$ -</b>	<b>\$ 15,270</b>	<b>\$ 134,730</b>

**Table 1. Project Budget Versus Expenses**

### Work Completed

This report summarizes activities on project tasks for November and December of 2020 and is the first contract progress report. Tasks 1 through 5 were active in the reporting period and had time billed to them. Progress on those tasks will be summarized below.

#### Task 1 Literature Review

Work on the Literature Review Task involved reviewing available publications and high grading/summarizing relevant ones. We have developed a summary document for this Task and are approximately 50% complete.

### Task 2 Seismic Data Vendor Review

Work on Task 2 has involved acquiring 2D and 3D polylines and polygons from the two major seismic data vendors in the state of Texas: SEI and Seitel along with contacting data reps and documenting the process.

### Task 3 Data Quality and Limitations

Activity on this Task was primarily planning related and centered on outlining a report format for summarizing typical seismic data quality and inherent limitations.

### Task 4 Methodology for Application of Seismic data on Brackish Aquifers

Activity on this Task was primarily planning related and centered on outlining a report format for summarizing a methodology for application of seismic data to brackish aquifers.

### Task 5 Application to an Aquifer Study

Activity on this Task involved downloading all relevant data within the Stratton dataset area. These datasets included TWDB GWDB, BRACS Database, Submitted Drillers Reports, RRC Geophysical well logs. Additionally, the Stratton dataset was downloaded and incorporation of the Gulf Coast Brackish data products with the Stratton dataset has begun.

## **Problems Encountered to Date**

To date no problems or issues have been encountered affecting execution of the scope of work.