

Federal Contract # DTFH61-17D00001 – Task Order #2

LONG-TERM BRIDGE PERFORMANCE PROGRAM

PROGRESS REPORT NO. 21

Report Period: June 1, 2019 – June 30, 2019

Prepared For:

Federal Highway Administration

Prepared By:



A. Account of work performed in this period

1. Coordination and Meetings Between the Contractor and FHWA LTBP Team

Nothing was done during this period.

2. Develop LTBP Program bridge performance strategic research matrix

Nothing was done during this period.

3. Conduct training for all field personnel on LTBP Protocols

Nothing was done during this period.

4. Development of data collection protocols and RABIT-CE operations manual

Nothing was done during this period.

5. Legacy Data Mining data extraction

Nothing was done during this period.

6. Organize, conduct, and participate in LTBP workshops and meetings

Nothing was done during this period.

7. Publications, website, communications, and technical assistance

The Rutgers team prepared the electronic version of the monthly progress report and submitted it to FHWA. Moreover, the Rutgers team developed a MS Project file showing the project milestone and submitted it to FHWA.

During this month, Dr. Babanejad continued worked on enhancing the quality of NDT data and XML files. Details is explained in the Subcontractors progress report.

Project Engineer: 92.85 hours

Technician: 20 hours

Project Support: 4 hours

B. Work to be accomplished during the next period

1. Coordination and Meetings Between the Contractor and FHWA LTBP Team

The Rutgers team will reach out to FHWA to set up a meeting for the month of July.

2. Develop LTBP Program bridge performance strategic research matrix

No work is planned under this task for the next reporting period.

3. Conduct training for all field personnel on LTBP Protocols

No work is planned under this task for the next reporting period.

4. Development of data collection protocols and RABIT-CE operations manual

No work is planned under this task for the next reporting period.

5. Legacy Data Mining data extraction

No work is planned under this task for the next reporting period.

6. Organize, conduct, and participate in LTBP workshops and meetings

No work is planned under this task for the next reporting period.

7. Publications, website, communications, and technical assistance

The Rutgers team will prepare the electronic version of the monthly progress report and will submit it to FHWA. Moreover, the Rutgers team will submit the updated MS Project file to FHWA.

C. Problems/Recommended Solutions

None.

D. How the results of the work performed supports one or more of the FHWA, DOT and LTBP Goals

The following is a summary of how the work performed on the primary tasks of this task order contribute to meeting the FHWA, DOT, and LTBP program goals.

Task 2 - Develop LTBP Program bridge performance strategic research matrix

Fundamentally, the SRMs aim to link the LTBP program to the larger research community. By placing the LTBP efforts in this larger context, the program will be able to identify potential synergies and collaborative opportunities as well as any overlaps that may exist. This will both increase the cost effectiveness of the program as well as the program's impact on bridge engineering practice through clearly showing how the LTBP program contributes to the overall bridge performance research landscape.

Task 3 - Conduct training for all field personnel on LTBP Protocols

At the heart of the LTBP program's data collection effort is the requirement that data be obtained in a consistent and reliable manner across the breadth of the program. Variations in collection techniques or unreliable practices would pollute the data streams and greatly limit the ability of the program to meet its goal of improving our understanding of long-term bridge performance. Activities under this task aim to ensure that the data collection efforts of the LTBP program are executed by teams with the required expertise to obtain consistent and reliable data.

Task 4 - Development of data collection protocols and RABIT-CE operations manual

Similar to the training work being conducted under Task 3, this task is also involved in ensuring consistent and reliable data collection throughout the program. Specifically, this task will develop additional protocols and operations manuals that specify best-practice approaches for data collection.

Task 5 - Legacy Data Mining data extraction

In addition to ensuring consistent and reliable data collection efforts, the overarching goal of the program is also dependent upon the completeness of the data collection efforts. This task contributes to this through the collection of available legacy data. This data not only provides a means to ensure field data collection efforts are carried out efficiently (i.e. on bridges best suited to meeting the program's goals) but also provides context to the data to help explain observed trends and correlations (and thus further our understanding of long-term bridge performance).

E. Purchases and Rentals

Nothing was purchased during this period.

F. Travel Details for Reporting Period

None.

G. Current and Cumulative Expenditures (cost shown includes benefits and overhead)

Institution	Current Expenditures 6/1/2019 – 6/30/2019	Cumulative Expenditures 10/1/2017 – 6/30/2019
Rutgers, the State University of New Jersey	\$ 1,696.00	\$ 893,881.59
Bridge Intelligence LLC	-	\$ 94,904.39
Pennoni Associates	-	\$ 34,206.00
Infratek Solutions	-	\$ 25,244.00
New Jersey Institute of Technology	-	\$ 28,237.18
WJE	\$ 12,070.50	\$ 45,901.50

H. Subcontractor's Progress Report

Progress Report # 4
06/01/2019 - 06/30/2019
Subaward No: 0863
Principal Investigator: Saeed Babanajad
Contract DTFH6117D00001 (T.O. 2 - Task 7)

July 10, 2019

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Re: Progress Report # 4 (06/01/2019 - 06/30/2019)

A. Accomplishments/Work Performed

During this period, WJE (Dr. Babanajad) performed the necessary steps in order to complete the QA/QC for the NDE data collected through the LTBP Program. He was frequently in contact with Rutgers employees (Dr. Moon, Mr. Mott, and Mr. Parvardeh) to discuss the details of collected data and any potential troubleshooting. The focus was more on addressing the problematic files and delivering frequency spectrums. Dr. Babanajad prepared a list of problematic issues and delivered those within a 3-hr conference call with FHWA. Toward the end of the month, Dr. Babanajad met with the FHWA staff at TFHRC and delivered the second round of data. He had a discussion session with Dr. Jalinoos and Dr. Lu regarding the data delivery.

B. Work Anticipated During the Next Period

WJE (Dr. Babanajad) will continue the similar activities in order facilitate the progress of project. He would also submit part of the completed data (such as XSD files and Pilot Bridges) to FHWA. He would also deliver the NDE stack files to FHWA for review. He would be in continuous contact with FHWA for delivering the data.

C. Changes /Problems

None.

D. Participants & Charged Level of Efforts

Headquarters & Laboratories—Northbrook, Illinois

Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit | Honolulu | Houston | Indianapolis | Los Angeles | Minneapolis | New Haven
New York | Philadelphia | Pittsburgh | Portland | Princeton | Raleigh | San Antonio | San Francisco | Seattle | South Florida | Washington, DC

The table summarizes the participants and charged level of efforts.

Personnel Name	Role/Contribution	Total Hours	Billed Cost
Saeed Babanajad	Project Manager	92.85	\$154.3/hour

E. Purchases and Rentals

Per attached, WJE purchased a business GSuite account as well as an external hard drive in order to get access to the data shared by Rutgers University.

F. Travel

None.

G. Charges

Institution	Current Expenditures 06/01/2019 – 06/30/2019		Cumulative Expenditures 02/01/2018 – 06/30/2019	
	Labor	Other Costs	Labor	Other Costs
WJE	\$14,326.76	\$68.51	\$55,139.11	\$104.05

Sincerely,

WISS, JANNEY, ELSTNER ASSOCIATES, INC.

Saeed Babanajad
Associate III

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SUBTOTAL 53.00

TAX 1 6.625 % 3.51

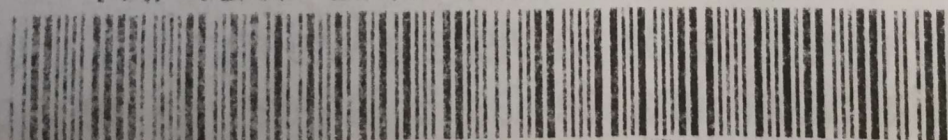
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Invoice number3603263079

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Summary for Jun 1, 2019 - Jun 30, 2019

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