**Federal Contract # DTFH61-17D00001 – Task Order #1**

**LONG-TERM BRIDGE PERFORMANCE PROGRAM**

PROGRESS REPORT NO. 2

Report Period: November 1, 2017 – November 30, 2017

Prepared For:

**Federal Highway Administration**

Prepared By:



**A. Account of work performed in this period**

* 1. **Coordination and Meetings Between the Contractor, FHWA LTBP Team, and State Highway Departments**

The Rutgers team reached out to FHWA to set up a monthly conference call. The conference call will be held on December 19th.

* 1. **Data Gap Analysis**

Task 2.1: In accordance with the Task 2 schedule, the work performed in November was dedicated to Task 2.1. This task focuses on examining and structuring the data that may be obtained from all current LTBP data collection protocols pertinent to each high priority performance issue and is currently on schedule. The data collection protocols (both published and available drafts) were reviewed and summarized. As a result of this effort, a database of data sources is being compiled which aggregates each possible data source available per LTBP protocols into a single, searchable table. These data sources may then be filtered and sorted in a variety of ways and will provide the basis in identifying, categorizing, and understanding what data is being collected. They may be searched by the primary, secondary, or tertiary LTBP protocol group or group number, by the specific data collected, or by a variety of other extensible “tags” that are used to provide a general characterization as to the nature of the data source as well as provide a relational link between other possible descriptive tables. Emphasis is also being paid on the logical grouping of these data types to provide a complete ‘picture’ of each data collection effort and how it aids or relates to each high priority performance issue. For example, the LTBP protocol EDBD005 involves collecting bridge inspection records inclusive of inspection information, data, documents, and images from previous inspections. This specific protocol was entered into the database and tagged as having “Structural”, “Maintenance and Preservation”, and “Design” data type attributes.

Task 2.1.1: Untreated Bridge Decks. LTBP data collection protocols regarding untreated bridge decks were reviewed and summarized using the database developed in Task 2.1.

Task 2.1.2: Bridge Deck Joints. LTBP data collection protocols regarding bridge deck joints were reviewed and summarized using the database developed in Task 2.1.

Project Engineer: 165 hours

Staff Engineer: 41.25

Project Support: 15

* 1. **Communication**

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.

**B. Work to be accomplished during the next period**

* 1. **Coordination and Meetings Between the Contractor, FHWA LTBP Team, and State Highway Departments**

The Rutgers team will conduct a meeting with FHWA on December 19th and will submit the meeting minutes shortly after the meeting.

* 1. **Data Gap Analysis**

As per the approved work plan, during the next month, the Rutgers team will finalize the results of Task 2.1 (Tasks 2.1.1 and 2.1.2) and begin work on Task 2.2 (Tasks 2.2.1 and 2.2.2), which aims to develop a set of data needs based on the four overarching objectives of the LTBP data collection phase. As discussed during the kick-off meeting for this Task Order, the Rutgers team has prioritized activities on untreated decks and joints to ensure their timely completion by March 25, 2018.

* 1. **Communication**

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**

No problems encountered during this period.

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

All of the work conducted under this task order aims to ensure that the LTBP program collects the data required to realize the following four use cases: (1) Advance research in bridge deterioration and predictive modeling, (2) Advance research in cost analysis, (3) Support improved bridge design methods, and (4) Quantify the effectiveness of bridge maintenance, preservation, repair, and rehabilitation strategies. These use cases encapsulate the overarching goals of the LTBP program and its vision for positively impacting the practice of bridge engineering.

**E. Purchases and Rentals**

Nothing was purchased or rented during this period.

**F. Travel Details for Reporting Period**

No travel occurred during this reporting period.

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

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| --- | --- | --- |
| **Institution** | **Current Expenditures**  **11/1/2017 – 11/30/2017** | **Cumulative Expenditures**  **10/1/2017 – 11/30/2017** |
| Rutgers, the State University of New Jersey | $ 24,858.75 | $ 49,717.50 |