TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

FHWA Office of Operations

| Transportation Pooled Fund Program Pr | oject # Transportation F | ooled Fund Program - Report Period: | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|
| TPF-5(470) | 🗌 Quarter 1 (Jar | □ Quarter 1 (January 1 – March 31) | | | | | | | | | | |
| | 🗌 Quarter 2 (Ap | il 1 – June 30) | | | | | | | | | | |
| | X Quarter 3 (July | 1 – September 30) | | | | | | | | | | |
| | □Quarter 4 (Octo | ber 1 – December 31) | | | | | | | | | | |
| Project Title: | | | | | | | | | | | | |
| Traffic Signal Change and Clearance Interv | al Pooled Fund Study – Synthesis F | Report (Phase 1 of 3) | | | | | | | | | | |
| | | | | | | | | | | | | |
| Name of Project Manager(s): Eddie Curtis | Phone Number: (404) 780-0927 | E-Mail Eddie.Curtis@dot.gov | | | | | | | | | | |
| Lead Agency Project ID: 693JJ321F000151 | Other Project ID (i.e., contract DTFH6116D00053L | Project Start Date: 6/21/2021 | | | | | | | | | | |
| Original Project End Date: 9/28/2022 | Current Project End Date: 3/23/2023 | Number of Extensions: 2 | | | | | | | | | | |
| roject schedule status: | | | | | | | | | | | | |
| On schedule $$ On revised schedule | dule | ☐ Behind schedule | | | | | | | | | | |
| overall Project Statistics: | | | | | | | | | | | | |
| Total Project Budget | Total Cost to Date for Proje | ct Percentage of Work Completed to Date | | | | | | | | | | |
| \$330,624 - (Phase 1) | \$184,000.00 | 56% | | | | | | | | | | |
| Quarterly Project Statistics: | | | | | | | | | | | | |
| Total Project Expenses | Total Amount of Funds | Total Percentage of | | | | | | | | | | |

| and Percentage This Quarter | Expended This Quarter | Time Used to Date |
|-----------------------------|-----------------------|-------------------|
| \$42,000 (13%) | \$42,0000 | 86% |
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Project Description:

Synthesis of the state of knowledge on traffic signal change and clearance intervals, and to identify research gaps, and develop a research and data collection plan to improve the documentation and consistent implementation of methods within state and local agencies.

The objectives of this task order are as follows:

- 1. The Contractor must develop a synthesis of knowledge on traffic signal change and clearance intervals, and identify research gaps, and develop a research plan and evaluate potential data collection alternatives.
- 2. The Contractor must provide a report, and companion database to characterize the current state of knowledge and practices related to traffic development and implementation of traffic signal change and clearance intervals.

Project Requirements

The Contractor must provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personal services necessary to perform the following Tasks.

Task 1 – Project Management

- Task 2 Literature Review and Benchmarking Report
- Task 2.5 Extended Literature Review (Examines unpublished research)

Task 3 – Research Plan

Task 4 – Data Collection Methods Analysis

Task 5 – Synthesis Report and Outreach

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

- Research Plan Complete
- Data Collection and Analysis Plan Complete

Anticipated work next quarter:

- o Draft Synthesis Report
- Final Synthesis Report
- Presentation of Synthesis Findings
- Expanded Literature Review

Significant Results:

• Literature Review Complete – Significant Finding is a gap in change and clearance interval evaluation methods.

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).

• The need to address a significant amount of unpublished research was discovered during the task order. To sustain the authority of the current research, a modification of the task was directed to address unpublished research. Additional funding was added to the task order and the performance period was extended to March 28, 2023.

Potential Implementation:

None to report this quarter.

| Tentative Schedule (June 2021 - September 2022) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Traffic Signal Change and Clearance Interval Pooled Fund Study – Synthesis Report | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Week Numbe | er 1 | 2 3 | 3 4 | 5 | 67 | 8 | 9 | 10 11 | 12 | 13 | 14 1 | 5 16 | 17 | 18 1 | _ | <u> </u> | 22 2 | 23 24 | 25 | 26 27 | 7 28 | 29 3 | 0 31 | 32 3 | 33 34 | 35 | 36 37 | 7 38 | 39 4 | 41 | 42 | 43 44 | 4 45 | 46 4 | 7 48 | 49 50 | 0 51 5 | 52 53 | 54 |
| Tasks | w 1 | Jun w 2 w | 1-21 / 3 w 4 | w 5 \ | Ju v 1 w 2 | I-21 2 w 3 | w 4 \ | Au v 1 w 2 | 1 g-21 2 w 3 | w 4 v | w 1 w | Sep-2 2 w 3 | 21 w 4 v | w 5 w | Oc / 1 w 2 | t-21 w 3 | w 4 w | No v 1 w 2 | ov-21 2 w 3 | w 4 w | D 1 w 2 | ec-21 w 3 w | 4 w 5 | J w 1 w | an-22 / 2 w 3 | 3 w 4 v | Fe | 2 w 3 | w 4 w | / 1 w 2 | Mar-22 | 2 w 4 w | 5 w 1 | Apr-2 w 2 w | 2 3 w 4 | M w 1 w | ay-22 2 w 3 v | w 4 w 1 | Ju w 2 \ |
| Task 1 - Project Management | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
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| Task 2 - Literature Review, Benchmarking and Research Gaps | | | | | | | | | 1 | ĻŲ |) | | | | | | | | - | | | | | | | | | | | | | | | | | | | | \square |
| Task 3 – Research Plan | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 | | į. | 2 | | | | 1 1 | | | | |
| Task 4 – Data Collection Alternatives and Analysis Methods | | | | | | | | | 1 | , <u> </u> | | 1 | 1 - T | | | _ | | | 1 | | | | 1 1 | | 1 | 1 1 | | | | | | 1 | | | 3 | | | | |
| Task 5 – Synthesis Report and Outreach | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interim Deliverable 1.1 - Kickoff Meeting (Agenda, Presentation, Project Schedule, Kickoff Meeting Minutes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interim Deliverable 1.2 - Project Management Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interim Deliverable 2.1 - Literature Review White Paper | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | * | | | | | | | | |
| Interim Deliverable 2.2 - Traffic Signal Change and Clearance Interval Benchmarking Plan | | | | | | | | | | | - | | | | | | | | | | | | | | | | | | | | * | | | | | | | | |
| Interim Deliverable 2.3 - Traffic Signal Change and Clearance Interval Benchmarking Data SQL-Based Database | | | | | | | | | | | | 1 | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Interim Deliverable 3.1 - Research Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | k | | | | * | | | | \square |
| Interim Deliverable 4.1 - Data Collection Alternatives and Analysis Methods Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | * | | | | |
| Interim Deliverable 5.1 - Synthesis Report | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interim Deliverable 5.2 - Presentation of Synthesis Findings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Progress Reports to NCHRP | X | | | | | Y | ال ا | | | T T | | Ψ | | Y | | | Y | | Ψ | Y | | | 1 | | | ľ | | Ψ | Y | | | | Ψ | | 1 | | | Y | \square |
| Duration of Tasks and Deliverables | 30 | | 13 20 | | 4 1 | 18 | 25 | 1 8 | 8 15 | 22 | 29 | 5 12 | 19 | 26 | 3 10 | 17 | 24 | 31 | 7 14 | 21 2 | 28 5 | 12 1 | 9 26 | 2 | 9 16 | 5 23 | 30 | 6 13 | | <mark>27</mark> (| 5 13 | 20 2 | 7 3 | 10 1 | 7 24 | 1 | 8 15 | 22 25 | 5 |
| Deadline for Draft and Final Interim Deliverables | 31 | | 14 21 | | 5 1 | | | 2 9 | 9 16 | 23 | 30 | 6 13 | 20 | 27 | 4 11 | 18 | 25 | 1 8 | 8 15 | 22 2 | 29 6 | 13 2 | | - | 10 17 | | 31 | | 21 | 28 | 7 14 | 21 2 | 8 4 | 11 1 | 8 25 | 2 | 9 16 | 23 30 | 6 |
| Time for Panel and FHWA Reviews | 1 | - | 15 22 | | 6 1 | 3 20 | 27 | 3 10 | 0 17 | 24 | 31 | / 14 | 21 | 28 | 5 12 | 19 | 26 | 2 9 | y 16 | 23 3 | 1 0 | 14 2 | | 4 | | - 20 | 1 | 8 15 | 22 | | 5 15 | 22 2 | y 5 | 12 1 | 19 26 | 3 1 | 0 17 | 24 31 | 7 |
| ☆ ★ Draft and Final Outcome of the Task to be presented on Technical Pannel Meetings | | 9 10 | 16 23 17 24 | 30 | 8 1 | + 21 5 22 | 28 | 4 I 5 1 | 1 18 | 25 | 2 | 0 15 | 22 | 29 | 0 13 | 20 | 2/ | 3 10 | 1 19 | 24 | 1 8 | 15 2 | | | 12 19 13 20 | | 2 3 1 | 7 16 | 23 | 2 9 | 7 16 1 17 | 23 3 | 0 6 21 7 | 10 2 | 20 2/ | 4 I 5 1 | 1 18 | 25 | ð |
| Thespan for Monthly Status and Ad-Hoc Meetings (IBD) | | | 17 24 | | 9 1 | 22 | 27 | 6 1 | 2 17 | 20 | 2 | 7 10 | 23 | 1 | 8 15 | 21 | 20 | 5 12 | 1 10 2 19 | 25 | 2 7 | 17 2 | | | 13 Zu 14 21 | | 4 1 | 1 18 | 24 | 4 11 | J 17 1 18 | 24 3 | 1 9 | 14 4 | 20 | 6 1 | 13 20 | 20 2 | 10 |
| Monthly and Quarterly Progress Reports | | | | | | 7 24 | 31 | 7 1 | 4 21 | 28 | 4 1 | 1 19 | 25 | 2 | 9 14 | | | | | 20 | | | | | | | | | | | | | 2 0 | 16 | 23 30 | 7 1 | 13 20 | | 11 |
| | | 12 | ./ 20 | | | | 01 | | - 21 | 20 | - | 1 10 | 25 | - | / 10 | 20 | 00 | 0 1 | 20 | 21 | | 10 2 | <u> </u> | 0 | 13 22 | - 2/ | <u> </u> | / | 20 | <u> </u> | / | 20 | | 10 1 | | | | | |