

TRANSPORTATION POOLED FUND PROGRAM

QUARTERLY PROGRESS REPORT – Q3/2023

Lead Agency: Washington State Department of Transportation (WSDOT)

INSTRUCTIONS:

Lead Agency contacts should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.

Transportation Pooled Fund Program Project		Quarterly Report Period	
TPF-5(500) LTPP Forensic Investigations - Stage 2 https://www.pooledfund.org/Details/Study/729		<input type="checkbox"/> Quarter 1: Jan-Mar <input type="checkbox"/> Quarter 2: Apr-Jun <input checked="" type="checkbox"/> Quarter 3: Jul-Sep <input type="checkbox"/> Quarter 4: Oct-Dec	
Lead Agency PM	Lead Agency PM Phone	Lead Agency Email	
Mustafa Mohamedali	360-704-6307	MohameM@wsdot.wa.gov	
Lead Agency Technical Lead	Lead Agency Tech Lead Phone	Lead Agency Email	
Karen Carlie	360-709-5479	CarlieK@wsdot.wa.gov	
Principal Investigator (PI)	PI Phone	PI Email	
Gonzalo Rada PhD, PE (WSP) Kevin Senn (NCE)	301-210-5105 775-329-4955	gonzalo.rada@wsp.com ksenn@ncenet.com	
Lead Agency Project ID	Other Project ID (e.g. contract #)	Program Start Date	
Y12819	WSP 6420230016	Sep 2, 2022	
Contract Start Date (Original)	Contract End Date (Original)	Revised Contract End Date	
Aug 17, 2023	Mar 31, 2026	--	

Program Schedule Status

On original schedule
 On revised schedule
 Ahead of schedule
 Behind schedule

Overall Program Statistics

Commitments to date \$	Obligations to date \$	% Obligated to date	Contracted to date \$	Expended to date \$	Expended this quarter \$
340,000	160,830	65%	pending	\$5,163	\$5,163

Project Description

The objective of this pooled fund study is to create a mechanism to allow for rapidly completing forensic evaluations of LTPP sections before going out of service. Test sections that are no longer active, but which have remained unchanged (i.e., no maintenance or rehabilitation has been applied), may also be considered for forensic evaluation. Possible reasons for carrying out the forensic evaluations include:

- Determining reasons for poor pavement performance/premature failures
- Understanding exceptional pavement performance and/or longevity
- Validating pavement performance prediction (predicted vs actual)
- Collecting data to support development and/or calibration of pavement performance prediction models
- Closing-out or conducting final investigations of experimental test sections.

Ultimately, the primary reason for carrying out the evaluations will be to determine if the data contained in the LTPP database adequately explains the performance of the test sections and why they performed as they did. If the existing information is insufficient, then identifying and collecting additional information to inform the performance will be strongly considered.

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

The project agreement was fully executed on Aug 17, 2023. Immediately after, the project team commenced work on project management activities, including:

- Preparation and execution of project safety and management plans.
- Conduct of project management activities, including contract administration, addition of NCE as subcontractor to the study and start of cost proposal preparation for first work order.
- Coordination of and preparation for project kick-off, which was held on Sept 27, 2023, as well as participation in the meeting and follow-up activities.

In addition, the project team began working on various test section selection activities, including a request for help from the LTPP program and its data collection services contractor with the identification of potential test sections for forensic evaluation.

Anticipated work next quarter

During the upcoming quarter the project team will work on the following project management activities:

- Complete preparation of cost proposal for initial work order.
- Prepare and submit monthly invoices
- Prepare and submit quarterly progress report for the Aug 17 to Sep 30, 2023 period.
- Complete addition of NCE in support of the project.
- As needed, conduct other required project management activities.

In addition, the project team will:

- Identify at least four LTPP test sections for possible forensic evaluation and formally submit these test sections (including proposed objective(s) and basis for recommendation) to WSDOT for review and approval.
- Commence forensic evaluation desktop study on at least two of the test sections approved by WSDOT.
- Continue coordination activities with the LTPP program and its data collection services contractor.

Significant results

Project is just starting so there are no significant results to present for the reporting period. It is expected, however, this will change in the coming period based on the findings, conclusions and recommendations generated from the anticipated forensic evaluation desktop studies.

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)

Project is just starting, so there are no technical challenges to report at present (and none are anticipated), which may affect completion of the project. On the budget side however, while there is enough funding available to give this project a robust start future progress of work will depend on already committed funds being obligated timeously by partner states to enable the work to continue without a break.

Potential Implementation

The primary outcome of the test section forensic evaluations will be memoranda documenting the major findings, conclusions, and recommendations, both for each investigation and for the overall project. As with the Stage 1 effort (TPF5-332), it is anticipated numerous important findings will be made as a direct result of the forensic evaluations, which will directly affect and therefore improve the LTPP database and will advance knowledge in the pavement community.