

TRANSPORTATION POOLED FUND PROGRAM

QUARTERLY PROGRESS REPORT – Q4/2025

Lead Agency: Washington State Department of Transportation (WSDOT)

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 type="checkbox"/> Quarter 3: Jul-Sep <input checked="" type="checkbox"/> Quarter 4: Oct-Dec	
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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 \$
440,000	440,000	100%	339,170	265,354	47,178

Note: More than \$10,000 of remaining contracted budget is set aside for travel.

<p>Project Description</p> <p>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 Test sections that are no longer active, but which have remained unchanged (i.e., no maintenance or rehabilitation has been applied), may also be considered for forensic evaluation.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 forensic evaluations include: • Determining reasons for poor pavement performance/premature failures • Understanding exceptional pavement performance and/or longevity • Validating pavement performance prediction</p>
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(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 work performed in each of the tasks specified by the project's scope of work (SOW) is summarized below. Table 1 provides further information on the Task 2 and Task 3 activities, while Figure 1 shows the location of the LTPP test sections selected to date for investigation. As was the case in the previous reporting period, *progress on the project tasks was significant over the current reporting period.*

Task 1. Project Management: • Completed preparations for and participated in October 6, 2025 project TAC meeting, which included a discussion of higher-order analyses using the unobligated funds • Prepared and submitted October, November and December 2025 invoices • Prepared and submitted quarterly progress report for the October 1 to December 30, 2025 period • Continued to perform subcontractor management activities • Continued to coordinate project activities with FHWA LTPP Team and its Data Collection Services Contractor (DCSC) • Conducted other required project management activities.

Task 2. Test Section Nominations: • Completed identification of LTPP test sections for forensic evaluation – in total, 69 LTPP test sections at 22 locations in 19 states were identified, which is in line with the 63 test sections, 26 locations and 23 states 19 states identified in TPF-5(332) • New test sections identified during the reporting period in question were two Washington SPS-8 (PCC) test sections and two Texas SPS-8 (PCC) test sections • Completed coordination activities with the FHWA LTPP Team and its DCSC to identify additional candidate test sections • No further test sections will be pursued as period of performance ends on March 31, 2026 and attention needs to shift to documentation activities.

Task 3a. Desktop Studies: • Completed forensic desktop evaluations for three South Dakota SPS-8 (AC), two Wisconsin SPS-8 (AC), and two Washington SPS-8 (PCC) test sections – draft technical memoranda were prepared and submitted to WSDOT for review and approval and some of them are being revised based on agency input • Completed revisions to desktop study reports for six Iowa SPS-2, four Florida SPS-10, six Oklahoma SPS-10, and six Missouri SPS-10 test sections based on agency provided input • Working on completion of Texas SPS-08 (PCC) desktop study draft memorandum • Other than this Texas SPS-08 (PCC) desktop study and revisions to desktop studies based on agency provided input, no further desktop studies are envisioned as period of performance ends on March 31, 2026 and attention needs to shift to documentation activities.

Task 3b. Follow-Up Forensic Investigations: • Pursued virtual or in-person meetings with Arizona, California, Colorado, Mississippi and Oklahoma (follow-up), but were unsuccessful • Working with the FHWA LTPP Team, pursued resolution of problem issues identified by the TPF-5(500) team • Additional follow-up forensic investigations are not anticipated during the upcoming reporting period, as the project effort will shift to the documentation activities.

Task 4. Final Report: Continued preparation of draft project report. It is estimated that about 50% of the report has been completed • It is also anticipated that a draft of the report will be provided to WSDOT in January 2026 and that revisions to report will be made by the end of March 2026.

Anticipated work next quarter

The anticipated work to be performed in each of the tasks specified by the project's SOW is summarized below. Based on the October 6, 2025 TAC meeting, the recommendation to utilize the \$100,000 in unobligated funds to perform higher-level analyses, develop a TechBrief, and deliver a webinar sharing key findings was unanimously approved. While activity to get this approved is anticipated in the next quarter, it is not yet in place. Therefore, the existing contract activities are the basis for the following description of next quarter's activities.

Task 1. Project Management: • Prepare for and participate in a possible last project TAC meeting • Prepare and submit quarterly progress report for the January 1 to March 31, 2026 period • Continue to perform subcontractor management activities • Continue to coordinate project activities with FHWA LTPP Team and its DCSC • Conduct other required project management activities.

Task 2. Test Section Nominations: • No further test sections will be pursued as period of performance ends on March 30, 2026, and attention needs to shift to documentation activities.

Task 3a. Desktop Studies: • Other than completion of the Texas SPS-08 (PCC) desktop study, no further desktop studies are envisioned as period of performance ends on March 30, 2026, and attention needs to shift to documentation activities.

Task 3b. Follow-Up Forensic Investigations: • No follow-up forensic investigations are anticipated, as the project resources will shift to the documentation activities.

Task 4. Final Report: • Additional follow-up forensic investigations are not anticipated during the upcoming reporting period, as the project effort will shift to the documentation activities • Complete initial draft of project report and submit it to WSDOT for review and comment by January 31, 2026 • Also, based on input from WSDOT, revise report and submit final version by March 31, 2026.

Significant results

The project continued to realize important results and findings. For example, based on the forensic evaluation desktop study for the WA test sections, an issue requiring correction of the LTPP InfoPave tool was identified. More specifically, the plots of rutting versus time for the three test sections in question showed incorrect trends, even though data associated with these plots were determined to be correct. The project team prepared and submitted LTPP Data Analysis and Operations Feedback Report (DAOFR) to the FHWA LTPP Team for corrective action; correction has been incorporated in the 2024 LTPP InfoPave release. Since then, other data (distress, traffic, etc.) issues have been identified during other forensic evaluations in the LTPP database and the project team is working with the FHWA LTPP team to address these issues. Another important outcome of the forensic investigations to date is the confirmation all test sections investigated to date, without exception, have adequate data to explain their performance. Moreover, recommendations are being made to further collect data elements that would further enhance the available data – e.g., within test section thickness measurements, close-out performance testing, laboratory testing, etc. We also learned, based on meetings with WSDOT, planned rehabilitation on the Washington SPS-10 project has been postponed, providing additional time to assess test section performance. Likewise, there were several positive outcomes from the September 2025 Iowa DOT discussion regarding potential future work and a commitment to perform sampling, as needed. Similar results have been realized from meetings with other agencies.

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)

There are no technical challenges to report at present (and none are anticipated), which may affect completion of the project. However, with the \$100,000 of committed funds remaining that have not been obligated, those funds could help further enhance the results of the project by introducing higher-order analyses (e.g., such as performance review and analyses of multiple SPS-10 Warm-Mix Asphalt test sections across the country), developing a TechBrief, and delivering a webinar sharing key project findings. These topics were discussed during the October 6, 2025 TAC meeting and it was unanimously supported by the TAC. To date, no contract modifications have been executed to enable the referenced efforts.

Potential Implementation

The primary outcome of the test section forensic evaluations is memoranda documenting the major findings, conclusions, and recommendations, both for each investigation and for the overall project. As with the Stage 1 effort (TPF-5(332)), numerous important findings have been 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 – please see earlier Significant Results section. While new findings are not anticipated, this could change if \$100,000 of committed funds remaining are obligated, as those funds could help further enhance the project results by introducing higher-order analyses, developing a TechBrief, and delivering a webinar sharing key project findings. If the funds are not obligated, the remainder of the project will focus on documenting the findings, conclusions and recommendations from the study.

Table 1. TPF-5(500) Project Summary Information

Study #	# of Sites	# of Sections	State(s)	LTPP ID	Experiment Type ¹	Pavement Type ²	Purpose of Investigation	Status
1	1	6	AZ	04-0213	SPS-02	JPCP	Performance Comparison; Other	Draft memorandum completed; no input from agency to date
				04-0214				
				04-0215				
				04-0217				
				04-0262				
04-0268								
2	1	4	CA	06-0201	SPS-02	JPCP	Performance Comparison; Other	Draft memorandum completed; no input from agency to date
				06-0203				
				06-0811	SPS-08			
				06-0812				
3	1	2	CA	06-A805	SPS-08	AC	Performance Comparison; Other	Draft memorandum completed; no input from agency to date
				06-A806				
4	1	4	CO	08-0213	SPS-02	JPCP	Performance Comparison; Other	Draft memorandum completed; no input from agency to date
				08-0215				
				08-0811	SPS-08			
				08-0812				
5	1	4	FL	12-AA01	SPS-10	AC	Performance Comparison; Other	Draft memorandum completed; revisions per agency input ongoing
				12-AA02				
				12-AA03				
				12-AA61				
6	1	6	IA	19-0214	SPS-02	JPCP	Performance Comparison; Other	Memorandum finalized per agency input
				19-0215				
				19-0219				
				19-0221				
				19-0224				
19-0259								
7	1	4	KS	20-0202	SPS-02	JPCP	Performance Comparison; Other	Memorandum finalized per agency input
				20-0203				
				20-0206				
				20-0210				
8	1	2	MS	28-0805	SPS-08	AC	Performance Comparison; Other	Draft memorandum completed; no input from agency to date
				28-0806				
9	1	6	MO	29-AA01	SPS-10	AC	Performance Comparison; Other	Memorandum finalized per agency input
				29-AA02				
				29-AA03				
				29-AA62				
				29-AA66				
29-AA67								
10	1	1	MT	30-7075	GPS-6S	AC	Excellent Performance; Other	Draft memorandum completed; no input from agency to date
11	1	3	NC	37-0801	SPS-08	AC	Performance Comparison; Other	Revisions to draft memorandum in progress due to recent data collection; no input from agency to date
				37-0802				
12	1	6	OK	40-AA01	SPS-10	AC	Performance Comparison; Other	Draft memorandum completed; no input from agency to date
				40-AA02				
				40-AA03				
				40-AA61				
				40-AA62				
40-AA63								
13	2	2	PA	GPS-6S	AC	Performance Comparison; Other	Draft memorandum completed; revised per input from one of two agencies	
			WA					
14	1	3	SD	46-0803	SPS-08	AC	Performance Comparison; Other	Draft memorandum completed; no input from agency to date
				46-0804				
				46-0859				
15	1	2	TX	48-0801	SPS-08	AC	Performance Comparison; Other	Draft memorandum completed; no input from agency to date
				48-0802				
16	1	3	TX	48-AA01	SPS-10	AC	Performance Comparison	Memorandum finalized per agency input
				48-AA02				
				48-AA03				
17	1	2	TX	48-A807	SPS-08	JPCP	Performance Comparison	Desktop study in progress
				48-A808				
18	1	3	WA	53-AA01	SPS-10	AC	Performance Comparison; Other	Memorandum finalized per agency input
				53-AA02				
				53-AA03				
19	2	4	WA	53-A809	SPS-08	JPCP	Performance Comparison; Other	Draft memorandum completed; no input from agency to date
				53-A810				
				53-0201				
				53-0203				
20	1	2	WI	55-0805	SPS-08	AC	Performance Comparison; Other	Draft memorandum completed; no input from agency to date
				55-0806				

Totals: 22 69

¹ Experiment Type

GPS-6S = AC Overlay of Milled PCC Pavement Using Conventional or Modified Asphalt Experiment
 SPS-02 = Strategic Study of Structural Factors for Rigid Pavements Experiment
 SPS-08 = Study of Environmental Effects in the Absence of Heavy Loads
 SPS-10 = Warm Mix Asphalt Overlay of Asphalt Pavement Study

² Pavement Type

AC = Asphalt Concrete
 JPCP = Jointed Plain Concrete Pavement

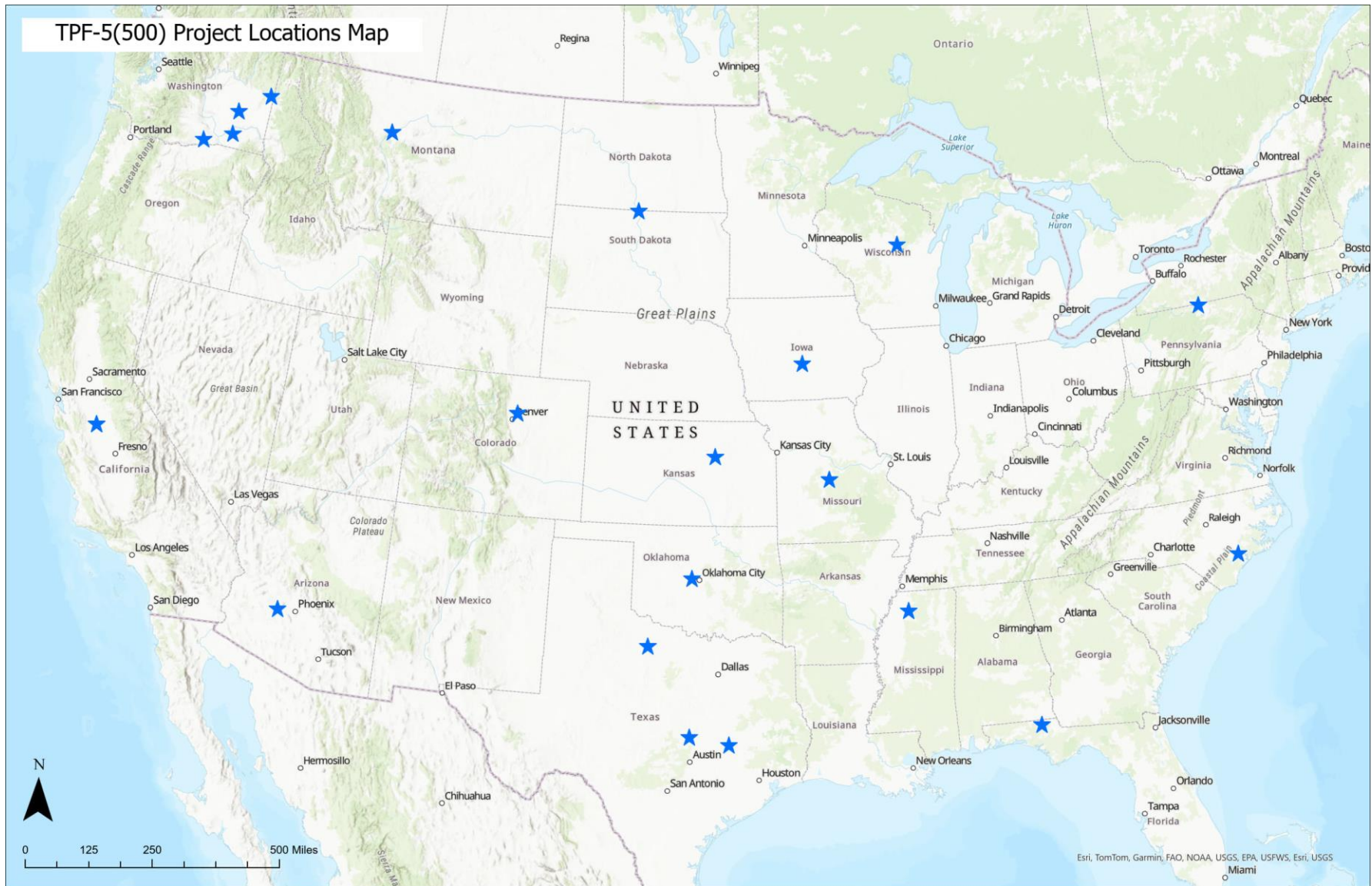


Figure 1. Geographical Location of TPF-5(500) LTPP Test Sections.