

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Virginia DOT (VDOT).

INSTRUCTIONS:

Project Managers and/or research project investigators 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 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 # <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i> TPF-5(463) Pavement Surface Properties Consortium: Phase III - Managing the Pavement Properties for Improved Safety		Transportation Pooled Fund Program - Report Period: <input checked="" type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 1 – December 31)	
Project Title: <div style="text-align: center;">Pavement Surface Properties Consortium Phase III</div>			
Name of Project Manager(s): Hari Krishnan Nair	Phone Number: (434) 293-1948	E-Mail harikrishnan.nair@VDOT.Virginia.gov	
Lead Agency Project ID: 82650	Other Project ID (i.e., contract #): 467191 (VT)	Project Start Date: 1/01/2021	
Original Project End Date: 9/30/2026	Current Project End Date: 9/30/2026	Number of Extensions: --	

Project schedule status:

☒ On schedule
 ☐ On revised schedule
 ☐ Ahead of schedule
 ☐ Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
\$1,750,000*	\$1,162,593	66%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$124,370 (7%)	\$124,370	66%

* Committed; includes direct transfer from Arkansas DOT. The actual contracted budget is \$1,410,000 (VTTI).

Project Description:

This applied research effort focuses on enhancing the level of service provided by the roadway transportation system by optimizing pavement surface characteristics. Phases I and II included regular verification and validation of the participants' equipment, opportunities for technology transfer, and the accumulation of a significant body of knowledge on the measurement of pavement surface properties and the integration of these measurements into the next generation of pavement asset management systems. The objective this phase is: (1) to continuing to support the implementation of asset management approaches and tools that help improve the safety of our road networks by reducing the number of crashes and related fatalities, and (2) to bring pavement design and evaluation experts together with maintenance and safety professionals to maximize the contribution of the pavement community Towards Zero Deaths on US highways.

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

- The pooled fund TPF-5(463)/CSRI participated in the 103rd Annual Meeting of the Transportation Research Board, January 6-10, 2025, in Washington, D.C. Presented two papers:
 - ✓ Crash Modification Factors and Functions for Management of Pavement Friction for Safety for Roadway Segments, and
 - ✓ Quality Assurance of Chip Seals Using a Macrotexture Metric.
- The FHWA SCRIM was used by the Pavement Friction Management (PFM) and Continuous Pavement Friction Measurement (CPFM) to Intersection Safety Focus States to make CPFM measurements in Florida on January 6-10, 2025 in three locations.
- The Pooled Fund TAC members held a virtual meeting on February 3rd to discuss the travel arrangements for the TAC members attending the RPUG in Dallas (Denton) in April 2025, having had to change the original location of Blacksburg, Virginia.
 - ✓ The members also were informed on the Macrotexture Rodeo 2025 that will be used to review the AASHTO Standards to be held in the ICART test facility in June 2025.
 - ✓ FHWA also informed about the status of the friction certification facility and plans to attend the UK trials which will serve to evaluate the procedures used for that purpose with SCRIMs.
 - ✓ The next meeting of the TAC of the Pooled Fund was set on Monday April 28 in Denton, Texas before the 2025 RPUG conference.
- On March 13, CSRI made a presentation to the Maryland SHA that requested information about the demonstration measurements made in 2021. The presentation was also attended by several others in that agency.
- CSRI continued working on the Report for Arkansas DOT. The analysis process has been delayed due to a lack of pavement type and year-built data that is necessary for the B/C evaluation.
- The Grip Tester loan program has been reactivated, and all the necessary quotes have been requested for this project to start again. It is expected that this unit will be delivered to MCDOT in the summer after the refurbishing work has been done and CSRI updated the data acquisition system from the original Windows 7 version to the latest Windows 11.

Anticipated work for next quarter:

- CSRI will continue working on the Report for Arkansas DOT
- CSRI will propose a LWA project in conjunction with DOTs that may be interested.

Significant Results:

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).

Potential Implementation: