

# 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 current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

<b>Transportation Pooled Fund Program Project #</b> <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i>  <b>TPF-5(463) Pavement Surface Properties Consortium: Phase III - Managing the Pavement Properties for Improved Safety</b>	<b>Transportation Pooled Fund Program - Report Period:</b> <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)	
<b>Project Title:</b> <div style="text-align: center;"><b>Pavement Surface Properties Consortium Phase III</b></div>		
<b>Name of Project Manager(s):</b> Brian Diefenderfer	<b>Phone Number:</b> (434) 293-1944	<b>E-Mail</b> <a href="mailto:Brian.Diefenderfer@VDOT.Virginia.gov">Brian.Diefenderfer@VDOT.Virginia.gov</a>
<b>Lead Agency Project ID:</b> 82650	<b>Other Project ID (i.e., contract #):</b> 467191 (VT)	<b>Project Start Date:</b> 1/01/2021
<b>Original Project End Date:</b> 9/30/2026	<b>Current Project End Date:</b> 9/30/2026	<b>Number of Extensions:</b> --

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
\$1,500,000*	\$125,938	8%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$31,102 (2%)	\$31,102	8%

\* Committed; the actual contracted budget is \$200,000 (VTI)

**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, significant progress, etc.):**

- Participated in a follow-up to Peer Exchange virtual meeting on January 4<sup>th</sup> to discuss any pending topics with all the states where CPFM has made demonstrations to date.
- Andy Mergenmeier, FHWA liaison to the Pooled Fund, provided a brief update to the TRB AKP50 Committee about the TPF-5(345/463) Managing the Pavement Properties for Improved Safety Pooled Fund activities, on Monday January 9, 2023, during the 102<sup>nd</sup> Annual Meeting of the Transportation Research Board, January 8-12, 2023, in Washington, D.C..
- Edgar de León Izeppi participated in the ATSSA 53<sup>rd</sup> Annual Convention and Traffic Expo in Phoenix, Arizona. He made a presentation about the CPFM Project Update in the session held on February 18 titled *Continuous Pavement Friction Measurement and Pavement Friction Management for Safety* with three state experiences with CPFM (Florida, Illinois, and Kentucky).
- Team members met with Pennsylvania DOT on January 23<sup>rd</sup>, with New Hampshire, Vermont, and Rhode Island DOTs on January 31<sup>st</sup>, and New Jersey DOT on February 27<sup>th</sup>, to participate in the close-out meeting for the demonstration projects with the FHWA CPFM and PFM project in their respective states. All the DOTs expressed interest in organizing further demonstration projects in the future.
- The Pooled Fund TAC members held virtual meetings in this quarter to discuss the following topics:
  - ✓ On February 13, team members gave an update on the travel arrangements for the TAC members attending the RPUG and Rodeo meetings in Illinois next April/May. At this meeting the members agreed on allowing consortium funds to be used to cover lunch for all Rodeo participants. All the travel information was provided for all members to complete their solicitations to their supervisors.
  - ✓ On March 13, team members completed updates necessary for the travel arrangements for the TAC members attending the RPUG and Rodeo meetings in Illinois next April/May. It was also agreed that the date for closing out the 345 pooled fund would be on September 30, 2023, to finish the necessary paperwork and reporting needed for this task.
- Team members completed on February 28 all the tasks of the FHWA CPFM and PFM project, which included the final following documents, which will soon be available to the public:
  - ✓ Characterizing Road Safety Performance using Pavement Friction (PUBLICATION NO. FHWA SA-23-006).
  - ✓ Pavement Friction for Road Safety, a Primer on Friction Measurements and Management Methods (PUBLICATION NO. FHWA SA-23-007).

**Anticipated work next quarter:**

- The 2023 Rodeo will be held at the ICART test track in Highland, Illinois on April 25-28. The next TAC meeting will be held after RPUG 2023 in O'Fallon, Illinois on May 4<sup>th</sup>, 2023.
- The Rodeo results will be processed and analyzed and presented to the TAC members following its completion.
- Work on the RNS task groups should resume after the Rodeo/RPUG events.
- Field work with the new macrotexture line laser in the FHWA CPFM truck is expected to start with the new FHWA project "*Pavement Friction Management and Continuous Pavement Friction Measurement to Intersection Safety Focus States*" which will perform measurements in six (6) starting in the next quarter. The FHWA CPFM will also be able to measure IRI with the new accelerometers that will also be installed with the new line laser for macrotexture.

**Significant Results:**

**Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might 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:**