

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.

Transportation Pooled Fund Program Project # <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i> TPF-5(385) Pavement Structural Evaluation with Traffic Deflection Devices (TSDDs)		Transportation Pooled Fund Program - Report Period: <input 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 checked="" type="checkbox"/> Quarter 4 (October 1 – December 31)	
Project Title: Pavement Structural Evaluation with Traffic Speed Deflection Devices (TSDDs)			
Name of Project Manager(s): Brian Diefenderfer	Phone Number: (434) 293-1944	E-Mail brian.diefenderfer@vdot.virginia.gov	
Lead Agency Project ID:	Other Project ID (i.e., contract #): 467027- 467225 - 467545 (VT)	Project Start Date: 10/15/2018	
Original Project End Date: 9/30/2021	Current Project End Date: 10/31/2023	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
\$6,716,000*	\$ 4,715,452	70%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$115,388 (2%)	\$115,388	70%

* Committed (including transfers from FHWA EFL); the actual contracted budget is \$6,052,610 (VTTI)

Project Description:

The objective of the pooled-fund is to establish a research consortium focused on providing participating agencies the opportunity to test available TSDDs as part of a demonstration project and providing guidelines on how to specify collection and use data collected with TSDDs. Specific tasks within this multi-year program will be developed in cooperation with the consortium participants.

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

- Organized TAC meeting: the date of the meeting is set for January 12, 2023 during the TRB annual meeting.
- Organized 8th Webinar: Mississippi presented its implementation efforts.
- Submitted Eastern Federal Lands TSD analysis report.
- Members of VTTI took training course from Kontur on the analysis of GPR data.
- Circulated the document *Guidelines and Specifications for TSDD Data Collection*. Collected feedback from pooled fund members and industry experts.
- Presented analysis of TSD data to the Wisconsin DOT.

Anticipated work next quarter:

- Conduct the TAC meeting on January 12, 2022
- Get feedback from pooled fund members on whether to continue the pooled fund activity in a new solicitation (current pool fund is scheduled to end in September 2023).
- Organize 9th Webinar
- Finalize *Guidelines and Specifications for TSDD Data Collection*.
- Finalize Webinars 1-6 report.
- Develop Circular summarizing workshop presentations.
- Schedule regional meeting for late spring.

Significant Results:

- Scavone, M. Katicha, S., Flintsch, G., and Amarth E. (2022) "On the TSD deflection velocity measurements: a revision to the current state of the art and discussion over its applicability for concrete pavement assessment." *International Journal of Pavement Engineering*, 1-13.

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: