TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (11111A of State DOT). <u>Virginia DOT (1001)</u>	Lead Agency (FHWA or State D	DOT): Virginia DOT (VDOT)	
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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.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)		Transportation Pool	ed Fund Program - Report Period:			
		☑ Quarter 1 (January 1 – March 31)				
TPF-5(268)		☐ Quarter 2 (April 1 – June 30)				
National Sustainable Pavement Consortium		☐ Quarter 3 (July 1 – September 30)				
		☐ Quarter 4 (October 1 – December 31)				
Project Title:		_	_			
National Sustainable Pavement Consortium						
Name of Project Manager(s):	Phone Number:		E-Mail			
Kevin Kenneth McGhee	\ -) 293-1956	Kevin.McGhee@VDOT.Virginia.gov			
Lead Agency Project ID:	-	(i.e., contract #):	Project Start Date:			
VCTIR 103567		148679	7/1/2012			
Original Project End Date:	Current Project		Number of Extensions:			
6/30/2018	12	/31/2019	4			
Project schedule status:						
☑ On schedule ☐ On revised sch	edule 🗆 /	Ahead of schedule	☐ Behind schedule			
Overall Project Statistics:						
Total Project Budget	Total Cos	t to Date for Project	Percentage of Work Completed to Date			
\$690,000 ¹		\$667,610	97%			

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$27,153 (4%)	\$27,153	97%

¹ Total available funds; \$684,244 contracted.

Project Description:

Through a regional pooled fund, this program of research focuses on enhancing pavement sustainability. The initial project scope covers:

- Examine emerging sustainable materials, technologies, products and pavement systems, how to facilitate their adoption, and what testing approaches and methods are needed to implement these technological improvements.
- ✓ Identify an appropriate set of metrics that comprises all aspects of pavement sustainability and the adaption or development of tools designed to assess pavement sustainability on qualitative and quantitative scales.
- Examine how sustainability considerations will affect all aspects of pavement engineering and management such as planning, design, construction, maintenance, management, and reclamation and develop guidelines for integration of these tools into pavement/ asset management business processes.
- ✓ Investigate the effect of climatic change on regional pavement engineering in terms of design, construction, maintenance, and management.

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

- Continued to work on the update of the LCA software developed earlier in the project, in collaboration with University of Twente.
- Continued to support the organization of the *International Symposium on Pavement, Roadway, and Bridge Life Cycle Assessment* 2020 (LCA2020), in California, USA.

Anticipated work next quarter:

- Finalize the software update.
- Continued to support the organization of LCA2020; which has been postponed to November or December 2020.

Significant Results:

- Finalized the following report:
 - o Amarh, E., Flintsch, G. W., Diefenderfer, B, Bowers, B., Santos, J., Synthesis of Long -Term Performance Data From States With Active In-Place Recycling Programs.
- The following final papers have been submitted to be included in the proceedings of the *International Symposium on Pavement, Roadway, and Bridge Life Cycle Assessment 2020* (LCA2020):
 - o Lizasoain-Arteaga, E., D. Castro-Fresno, D., Flintsch, G. W., "Effect of durability on fiber-reinforced asphalt mixtures sustainability."
 - o Amarh, E., Santos, J., Flintsch, G. W., Diefenderfer, "Development of pavement performance prediction models for in-situ recycled pavements in Virginia."

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).

No problems were encountered in this quarter.

Potential Implementation:	