**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.*

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| **Transportation Pooled Fund Program Project #**  *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)*  **TPF-5(345) Pavement Surface Properties Consortium  – A Research Program at the Virginia Smart Road  Phase II** | | | **Transportation Pooled Fund Program - Report Period:**  🞎 Quarter 1 (January 1 – March 31)  🞎 Quarter 2 (April 1 – June 30)  🞎 Quarter 3 (July 1 – September 30)  🗹 Quarter 4 (October 1 – December 31) | | |
| **Project Title:**  **Pavement Surface Properties Consortium: A Research Program** | | | | | |
| **Name of Project Manager(s):**  Brian Diefenderfer | **Phone Number:**  (434) 293-1944 | | | **E-Mail**  brian.diefenderfer@vdot.virginia.gov | |
| **Lead Agency Project ID:**  82650 | | **Other Project ID (i.e., contract #):**  449501 (VT) | | | **Project Start Date:**  5/19/2016 |
| **Original Project End Date:**  2/28/2022 | | **Current Project End Date:**  10/31/2022 | | | **Number of Extensions:**  -- |

Project schedule status:

* On schedule 🞎 On revised schedule 🞎 Ahead of schedule 🞎 Behind schedule

Overall Project Statistics:

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| **Total Project Budget** | **Total Cost to Date for Project** | **Percentage of Work**  **Completed to Date** |
| $1,402,079\* | $1,348,555 | 96% |

***Quarterly*** Project Statistics:

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| **Total Project Expenses**  **and Percentage This Quarter** | **Total Amount of Funds**  **Expended This Quarter** | **Total Percentage of**  **Time Used to Date** |
| $4,409 (<1%) | $4,409 | 96% |

\* Committed; the actual budget contracted with VTTI is $1,373,681

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| **Project Description**:  This program of research focuses on optimizing pavement surface texture characteristics. Phase I of the program demonstrated that a collaborative research program can provide an accessible and efficient way for highway agencies and other organizations to conduct research on pavement surface properties. This second phase focuses on addressing some of the emerging challenges in the evaluation of pavement surface properties and the changes needed to best support the next generation of pavement and asset management systems, including support for MAP21-related initiatives. The program includes the following main broad activities: (1) equipment comparisons; (2) technology transfer; and (3) research on emerging topics. |

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| **Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**   * Team members met with CALTRANS on October 4 to participate in the close-out meeting for the demonstration project with the FHWA CPFM and PFM project. CALTRANS expressed interest in doing more demonstration projects in the future. * The Pooled Fund TAC members and other invited guests held several virtual meetings in this quarter related to the RNS task forces that were formed. The objective of these groups is to work on an RNS for each topic and submit it to the pooled fund to decide whether to propose them to the TRB-NCHRP process or seek for another mechanism to perform the research. The following were some of the topics discussed during this quarter:   + Epoxy application amounts based on surface macrotexture, October 3.   + Asphalt based HFST treatments, October 10.   + guidance for HFST applications lengths, October 12. * On October 27, Dr. Gerardo Flintsch participated in the TRB Webinar *“NCHRP Report 964 Protocols for Network Level Macrotexture Measurements to Prevent Wet Weather Crashes”*. This webinar discussed protocols for test methods, equipment specifications, and data quality assurance practices for network-level macrotexture measurement. Collecting accurate and repeatable texture data provides agencies with valuable information that helps identify high risk locations for wet weather crashes. This webinar was sponsored by the TRB Standing Technical Committee AKP50 on Pavement Surface Properties and Vehicle Interaction. * The Pooled Fund TAC members and other invited guests held a virtual meeting in this quarter, on December 14 to present the results of the equipment comparison (Rodeo) held in Blacksburg at the Smart Road. These results will be presented at the next RPUG meeting. |

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| **Anticipated work next quarter**:   * Complete arrangements for an in-person TAC meeting during the RPUG conference and the 2023 Annual Rodeo event in the new ICART test track in Illinois. |

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| **Significant Results:**   * TRB Webinar *NCHRP Report 964 Protocols for Network Level Macrotexture Measurements to Prevent Wet Weather Crashes* |

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| **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).** |

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| **Potential Implementation:** |