# TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

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Transportation Pooled Fund Program Project # TPF-5(300)		Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2018) X Quarter 2 (April 1 – June 30, 2018) Quarter 3 (July 1 – September 30, 2018) Quarter 4 (October 1 – December 31, 2018)	
		oil:	
239-1471		n.worrel@dot.iowa.gov	
<b>Phone:</b> 515-294-93		ail: lor@iastate.edu	
		Project Start Date: 5/29/14	
Current Proj 5/31/2019	ect End Date:	Number of Extensions: PFS	
$\square$ On schedule $X$ On revised schedule $\square$ Ahead of schedule $\square$ Behind schedule			
Total Cost	to Date for Project	Total Percentage of Work Completed	
\$1,304,705.2	3	75%	
Total Amount of Funds Expended This Quarter		Percentage of Work Completed This Quarter	
·		5%	
	ement Systems Phone: 239-1471 Phone: 515-294-93 Other Project Addendum 56 Current Proj 5/31/2019  Schedule Total Cost \$1,304,705.2	Transportation Poo Quarter 1 (Janual X Quarter 2 (April Quarter 3 (July 1 Quarter 4 (Octobe  Phone: E-m 239-1471 brian  Phone: E-m 515-294-9333 ptay  Other Project ID (i.e., contract #): Addendum 504  Current Project End Date: 5/31/2019  Schedule Ahead of sche  Total Cost to Date for Project  \$1,304,705.23	

#### **Project Description:**

The modern approach to highway design is embodied in the Mechanistic-Empirical Pavement Design Guide (MEPDG), which incorporates models embedded in dedicated software, such as AASHTOWare Pavement ME Design, to predict pavement performance in greater detail than before. Full implementation of the MEPDG by state departments of transportation requires customizing or calibrating the software to state and local conditions, which in turn requires collecting data on climate, material properties, load response, and pavement performance.

The MEPDG software uses these data inputs to more accurately simulate the load response of pavements and long-term pavement performance. Local calibration of the software involves comparing long-term performance simulation results to actual performance data at local sites if possible or from matching pavements in the LTPP database. New York is one of the states that have previously instrumented test pavement sections to acquire local data to improve calibration of the MEPDG software. The installed sensors are still functioning to an extent that permits collection of additional useful data. This project has these objectives:

- Collecting load response and performance data and environmental monitoring at selected test pavements in New York for four years.
- Installing new instrumented sections as needed for a better understanding of rigid pavement response, including monitoring for the duration of the project.
- Determining the impact of a base on long-term performance of rigid pavement utilizing the data acquired in fulfilling the first two objectives and other nationally available data on the topic.

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

- At the March conference call, New York requested to terminate the contract without year 5 (data collection will end year 4).
- A final report has been submitted and is ungoing TAC review.

#### **Anticipated Progress next Quarter:**

- The final report will be edited and submitted to the New York DOT
- Project will be completed.

## Significant Results:

Circumstances affecting project or budget (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).

• New York has requested to terminate the contract without year 5 (data collection will end year 4). The subcontract with Ohio University was modified to show a reduction of \$240,029.