TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): ____ IOWA DOT

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 #		Transportation Pooled Fund Program - Report Period:	
TPF-5 (224)		□Quarter 1 (January 1 – March 31)	
		X Quarter 2 (April 1 -	- June 30)
		□Quarter 3 (July 1 –	September 30)
		Quarter 4 (October	4 – December 31)
Project Title:			
Investigation of Deterioration of Joints in Co	ncrete Paveme	nts	
Project Manager:	Phone:	E-mai	il:
Peter Taylor	294-9333	ptaylor@	iastate.edu
Project Investigator:	Phone:	E-ma	il:
Peter Taylor	294-9333	ptaylor@	iastate.edu
Lead Agency Project ID:	Other Project ID (i.e., contract #):		Project Start Date:
RT 0323	Addendum 361		11/01/09
Original Project End Date: 6/30/12	Current Project End Date: 6/30/12		Number of Extensions:

Project schedule status:

X On schedule	Ahead of schedule	Behind schedule
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Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Total Percentage of Work Completed
165,000	36,642	15%

Quarterly Project Statistics:

Total Project Expenses	Total Amount of Funds	Percentage of Work Completed
This Quarter	Expended This Quarter	This Quarter
7434		5

Project Description:

The objective of this project is to identify the failure mechanisms behind early deterioration occurring in the joints of concrete pavements in various northern states, and to develop strategies to prevent the deterioration of new pavements in the future. Tied to this understanding will be the ability to provide effective guidance on what to do about repairing and/or slowing the distress in existing pavements.

Premature deterioration of concrete at the joints in concrete pavements and parking lots has been reported across the northern states. The distress is first observed as shadowing when microcracking near the joints traps water, later exhibiting as significant loss of material. Not all roadways are distressed, but the problem is common enough to cause some local authorities to reconsider the use of concrete in their pavements. Some meetings have been held at which stakeholders have discussed their observations, but to date there is no consensus on what the underlying causes of the distress are, or how to address them. A number of potential causes have been suggested, however it is not clear whether any or all of them is predominant or even applicable.

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

- Presentations at PCA and ACPA meetings
- Webmeeting held with panel on May 23, 2011
- Field trip to WI conducted in June 2011. 3 locations selected for coring and petrographic analysis
- Modified C666 tests started
- Equipment for field permeability test has been ordered

Anticipated work next quarter:

- Continue work on all tasks above
- Develop tech transfer pieces based on current understanding

Significant Results:

Circumstance 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).