# State Planning and Research Program Quarterly Report

	Quarterly Report				
<b>PROJECT TITLE</b> : Understanding the Che Agents on Porous or Permeable Pavements	mical and Mechanical Perform	ance of Snow and Ice Control			
<b>OBJECTIVES</b> : The objectives of this rese interactions that occur when deicers are app winter storm to determine optimal winter ma pavements	lied to textured or porous paver	nents before, during and after a			
<b>PERIOD COVERED</b> : July 1, 2015 – Sept	ember 30, 2015				
PARTICIPATING AGENCIES: Western Transportation Institute, Montana S	State University – Bozeman				
<b>PROJECT MANAGER</b> : Tom Peters and Deborah Sinclair	SP&R PROJECT NO: TPF-5(218) MnDOT Contract No.99006	PROJECT IS:			
<b>LEAD AGENCY:</b> Minnesota Department of Transportation		X Research & Development			
PRINCIPAL INVESTIGATOR: Michelle Akin					
<b>PROJECT BUDGET</b> : \$185,000	PROJECT EXPENDITURES TO DATE: \$161,569				
<ul> <li>staff of the highway division. Attem an attempted visit by a research team another project meeting.</li> <li>Additional laboratory testing was per (rubber-bottom) friction tester and an additional tests to better document the Continued analysis of lab data to dev Task 7 – Synthesize Best Maintenance Pr Task 8 – Recommend a Plan of Study – no</li> </ul>	nd Overlay Types - COMPLE cal Interactions res of OGFC pavements, primar icentives and a hiring freeze) with the research team include in member to pick up cores while rformed in August and Septembr in optical friction sensor. More the "whiteness" of porous and per velop the White Paper. actices – no progress during thi	TE rily due to significant staff shortages ithin the pavement design and coring ed multiple emails, phone calls, and e traveling to Massachusetts for a per using a larger mechanical pictures were taken during the ermeable pavements.			
<ul> <li>Task 9 – Reporting</li> <li>Submitted Quarterly Report #10</li> </ul>					

### SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

### Task 1 – Project Management

- general management of project in terms of contractual compliance, budget and schedule, administrative tasks, and communication with technical panel
- Teleconference in November to discuss White Paper on Chemical and Mechanical Interactions
- Task 2 Literature Search completed
- Task 3 List and Categorize Pavement and Overlay Types completed
- Task 4 Interviews *completed*

Task 5 – Lab Testing - *completed* 

**Task 6 – Analyze Chemical and Mechanical Interactions** 

• Finish analysis of laboratory data.

### **Task 7 – Synthesize Best Maintenance Practices**

• Use information from literature search, interviews and lab testing to develop guidelines for best practices

Task 8 – Recommend a Plan of Study – no progress anticipated during this period

• Develop recommendations for field testing of porous and permeable pavements during winter storms.

### Task 9 – Reporting

- Write Quarterly Report 12
- Write White Paper on Chemical and Mechanical Interactions

## **STATUS:**

The project is currently behind schedule for Task 6. Tasks 7, 8 and 9 are expected to be completed on schedule.

Task	Start Date	Completion Date	Status
1 – Project Management	2/1/2013	9/30/2015	On-Going
2 – Literature Search	2/1/2013	5/31/2013	Completed
3 – List & Categorize Pavement & Overlay Types	6/1/2013	6/30/2013	Completed
4 – Interviews	6/1/2013	1/31/2014	Completed
5 – Lab Testing	3/1/2014	12/31/2015	Completed
6 – Analyze Chemical & Mechanical Interactions	1/1/2015	7/31/2015	<b>On-Going</b>
7 – Synthesize Best Management Practices	8/1/2015	10/31/2015	Not Started
8 – Recommend a Plan of Study	11/1/2015	12/31/2015	Not Started
9 – Reporting	5/1/2013	3/31/2016	<b>On-Going</b>