State Planning and Research Program Quarterly Report

	Quarterly Report	
PROJECT TITLE: Understanding the Che	emical and Mechanical Performation	ance of Snow and Ice Control
Agents on Porous or Permeable Pavements		
C C		
OBJECTIVES : The objectives of this rese	arch are to identify the primary	chemical and mechanical
interactions that occur when deicers are app	lied to textured or porous paven	nents before, during and after a
winter storm to determine optimal winter m		
pavements	0 11	
-		
PERIOD COVERED: October 1, 2016 –	December 31, 2016	
PARTICIPATING AGENCIES:		
Western Transportation Institute, Montana S	State University Bozeman	
western fransportation institute, wontana	State Oniversity – Bozenian	
PROJECT MANAGER:	SP&R PROJECT NO:	PROJECT IS:
Tom Peters and Deborah Sinclair	TPF-5(218)	
Tom Teters and Deboran Smelan	MnDOT Contract No.99006	Planning
LEAD AGENCY:		X Research & Development
Minnesota Department of Transportation		
Transportation		
PRINCIPAL INVESTIGATOR:		
Michelle Akin		
PROJECT BUDGET:	PROJECT EXPENDITURI	ES TO DATE:
\$185,000	\$180,457	
<u> </u>		
WORK COMPLETED:		
Task 1 – Project Management		
• general management of project in te	-	budget and schedule, administrative
tasks, and communication with tech	-	
Task 2 – Literature Search - COMPLETE		
Task 3 – List and Categorize Pavement a	nd Overlay Types - COMPLE	TE
Task 4 – Interviews - COMPLETE		
Task 5 – Lab Testing - COMPLETE		
Task 6 – Analyze Chemical and Mechani		
• drafted White Paper on Chemical ar		ear completion
Task 7 – Synthesize Best Maintenance Pr		
• continued working on summary of r	ecommendations based on litera	iture review, interviews and lab
testing	dente d'i i d	
Task 8 – Recommend a Plan of Study – n	o progress during this period	
Task 9 – Reporting		
• submitted Quarterly Report #15		

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

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 and submit draft of White Paper on Chemical and Mechanical Interactions

Task 7 – Synthesize Best Maintenance Practices

• finish and submit draft of Synthesis of Best Practices

Task 8 – Recommend a Plan of Study

• draft and submit *Field Testing Recommendations*

Task 9 – Reporting

- write Quarterly Report #17
- draft and submit *Draft Final Report*

STATUS:

The project is currently behind schedule; the White Paper will be submitted as soon as possible.

Wester Wester						20)16							2017	
Work Tasks	J	F	Μ	Α	Μ	J	J	А	S	0	Ν	D	J	F	Μ
1 - Project Management															
2 – Literature Search															
3 - List and Categorize Pavement and Overlay Types															
4 – Interviews															
5 – Lab Testing															
6 - Analyze Chemical & Mechanical Interactions								X		X					
7 - Synthesize Best Management Practices				1		1				75		5			
8 – Recommend a Plan of Study															ĺ.
9 – Reporting													*		

beliverable	Draft Due	Final Due
Literature Search Submittal	completed	
Categorized List of Porous/Permeable Pavements	completed	
Synthesis of Interview Results	completed	
White Paper on Chemical and Mechanical Interactions	31-Aug-16	31-Oct-16
Synthesis of Best Practices	31-Oct-16	31-Dec-16
Field Testing Recommendations	30-Nov-16	31-Jan-17
Final Report	31-Jan-17	31-Mar-17