State Planning and Research Program Quarterly Report

	Quarterly Report	
PROJECT TITLE : Understanding the Che Agents on Porous or Permeable Pavements	mical and Mechanical Performation	ance of Snow and Ice Control
OBJECTIVES : The objectives of this reserve interactions that occur when deicers are apply winter storm to determine optimal winter mapavements	lied to textured or porous paven	nents before, during and after a
PERIOD COVERED: April 1, 2013 – Jun	e 30, 2013	
PARTICIPATING AGENCIES:		
Western Transportation Institute, Montana S	State University – Bozeman	
PROJECT MANAGER:	SP&R PROJECT NO:	PROJECT IS:
Tom Peters and Ashley Duran	TPF-5(218)	
LEAD AGENCY:	MnDOT Contract No.99006	Planning
Minnesota Department of Transportation		X Research & Development
PRINCIPAL INVESTIGATOR: Michelle Akin		
PROJECT BUDGET: \$185,000	PROJECT EXPENDITURES TO DATE: \$27,262	
 WORK COMPLETED: Task 0 – Project Management Check-in teleconference held on Apr Task 1 – Literature Search Completed literature search Completed literature search Task 2 –List and Categorize Pavement an Identified pavement and overlay type Identified relevant pavement propert Task 3 – Interviews Prepared preliminary solicitation of i Drafted potential questions for interv Task 4 – Lab Testing – no progress during Task 5 – Analyze Chemical and Mechanic Task 7 – Recommend a Plan of Study – no 	til 23, 2013 d Overlay Types es to be included in categorized ies interviewees for Clear Roads m viewees this period cal Interactions – no progress of actices – no progress during thi	eeting May 7–9, 2013 during this period

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

Task 0 – Project Management

- Teleconference to discuss Task 1 and 2 findings on July 15, 2013
- Teleconference to discuss Task 3 findings and plans for Task 4 around late August/early September

Task 1 – Literature Search – completed

Task 2 – List and Categorize Pavement and Overlay Types

• Compile a categorized list of pavement surfaces identified in Task 1 with a description of unique properties for each category

Task 3 – Interviews

- Email request for interviews to Clear Roads states and international sources
- Conduct interviews
- Prepare a synthesis of interview results

Task 4 – Lab Testing

- Prepare lab testing plan based on proposal and information gathered during previous tasks
- Acquire pavement samples
- Modify lab equipment as necessary (e.g., liquid applicator, trafficking device)
- Preliminary CT scans of pavements with potential tracers to track movement of deicers (e.g., iodine or barium contrast media are used in medical CT scans and may be applicable)

Task 5 – Analyze Chemical and Mechanical Interactions – no progress anticipated during this period

Task 6 – Synthesize Best Maintenance Practices – no progress anticipated during this period

Task 7 – Recommend a Plan of Study – no progress anticipated during this period

Task 8 – Reporting

- Write Progress Report 3
- Write and submit Task 2 Deliverable: Categorized List of Porous/Permeable Pavements
- Write and submit Task 3 Deliverable: Synthesis of Interview Results

STATUS:

The project is about 3 weeks behind schedule.