State Planning and Research Program Quarterly Report

PROJECT TITLE: Standards and Guidance for Using Mobile Sensor Technology to Assess Winter Road Conditions

OBJECTIVES: Create guidance for using weather sensing technology to assess road conditions. Undertake rigorous field testing of equipment from major manufacturers in order to develop standardized measurement scales for each parameter. Develop metrics that can be used to describe road conditions.

PERIOD COVERED: July 1 to September 30, 2017

PARTICIPATING AGENCIES:

Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee

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PROJECT MANAGER:	SP&R PROJECT NO:	PROJECT IS:
Debra Fick/ Tom Peters	MnDOT Contract No.	
	1026091	Planning
LEAD AGENCY: MnDOT		X Research & Development
	Federal Project Number:	
	TPF-5(218)	
PRINCIPAL INVESTIGATOR:	- (- /	
Erik Minge, SRF Consulting Group		
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ANNUAL BUDGET : \$76,190	PROJECT EXPENDITUR	ES TO DATE : \$51,236.87
WORK COMPLETED:		
Finalize literature review		
Conducted survey		
Completed and delivered survey report		
 Delivered test plan for comments 		
 Received and tested all sensors 		
• Designed and began construction of sensor mounting assembly on test trailer		
SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:		
Complete construction of test trailer		
• Test installation of sensors		
Coordinate with MnROAD for Phase 1 tests		
• Finalize test plan		
• Begin testing as weather permits		
STATUS AND COMPLETION DATE:		
The project completion date is April 30, 2019.		
A contract extension was approved to provide adequate time for survey development and review.		