

**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:** October 1 to December 31, 2018

**PARTICIPATING AGENCIES:** Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee

**PROJECT MANAGER:**

Debra Fick/ Tom Peters

**LEAD AGENCY:** MnDOT

**PRINCIPAL INVESTIGATOR:**

Mark Gallagher (replacing Scott Petersen),  
SRF Consulting Group

**SP&R PROJECT NO:**

MnDOT Contract No.  
1026091

Federal Project Number:  
TPF-5(218)

**PROJECT IS:**

☐ Planning

☒ Research & Development

**ANNUAL BUDGET:** \$76,190

**PROJECT EXPENDITURES TO DATE:** \$138,637.39

**WORK COMPLETED:**

- Finalized Standards Memorandum

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

- Distribute Draft Final Report

**STATUS AND COMPLETION DATE:**

The project completion date is February 28, 2019.

A contract extension was approved to provide adequate time for survey development and review.

**NOTES:**

- Task 3 required more than the budgeted hours to complete because revisions to the Test Methodology were requested by the project committee, and adjustments to confirm to the operations of the baseline measurement devices were required.
- Task 5 required discussions with the project team to understand the task scope.