

**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: April 1 to June 30, 2017

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

PROJECT MANAGER:

Debra Fick/ Tom Peters

SP&R PROJECT NO:

MnDOT Contract
No. 1026091

PROJECT IS:

Planning
 Research & Development

LEAD AGENCY: MnDOT

Federal Project Number:
TPF-5(218)

PRINCIPAL INVESTIGATOR:

Mark Gallagher (replacing Scott Petersen
for SRF Consulting Group)

ANNUAL BUDGET: \$76,190

PROJECT EXPENDITURES TO DATE: \$30,897

WORK COMPLETED:

- Completed draft literature review and distributed comments
- Began revising literature review
- Revised survey
- Contacted vendors to obtain test devices
- Began work on test plan.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Finalize literature search document
- Finalize survey
- Conduct survey & interviews
- Circulate and finalize test methodology
- Obtain test devices

STATUS AND COMPLETION DATE:

The project completion date is April 30, 2019.

A contract extension is currently being prepared to provide adequate time for survey development and review.