

**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, 2017

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, SRF Consulting Group

SP&R PROJECT NO:

MnDOT Contract No.
26091

Federal Project Number:
TPF-5(218)

PROJECT IS:

____ Planning
 X Research & Development

ANNUAL BUDGET: \$76,190

PROJECT EXPENDITURES TO DATE: \$69,434.19

WORK COMPLETED:

- Constructed test trailer platform
- Installed all sensors on platform
- Performed initial data collection tests
- Revised sensor mounting as needed
- Met with High Sierra (Mobile IceSight) rep to review installation.
- Began work on device description sections of final report
- Planned for study data collection

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Conduct MnROAD for Phase 1 tests
- Conduct “live” roadway tests
- Begin data analysis

STATUS AND COMPLETION DATE:

An extension of task deliverables was approved to provide adequate time for survey development and review. The contract end date is still April 30, 2019.