

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: January 1 to March 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, 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: \$93,772.44

WORK COMPLETED:

- Completed Phase 1 (benchmark) testing
- Completed core Phase 2 (live traffic) testing
- Began data analysis
- Began drafting sections of final report

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Complete additional live traffic testing (high temperature, rain, etc.)
- Complete data analysis
- Draft preliminary standards document.

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.