

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, 2019

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

PROJECT MANAGER:

Lisa Jansen/ Tom Peters

LEAD AGENCY: MnDOT

PRINCIPAL INVESTIGATOR:

Mark Gallagher (replacing Scott Petersen for 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: \$150,403.74

WORK COMPLETED:

- Finalized and submitted and final report
- Submitted draft final webinar presentation

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Conduct final webinar
- Submit presentation materials for Clear Roads use
- Complete project

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.

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.