

State Planning and Research Program Quarterly Report

PROJECT TITLE: *Expanded Use of AVL/GPS Technology*

OBJECTIVES: To help state transportation agencies optimize the value gained from the acquisition of AVL/GPS units by deploying them year-round, rather than just in winter maintenance operations.

PERIOD COVERED: April 1, 2021 to June 30, 2021

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

PROJECT MANAGER:

Hafiz Munir / Tom Peters

SP&R PROJECT NO:

MnDOT Contract No.

1044528

PROJECT IS:

Planning

Research & Development

LEAD AGENCY: MnDOT

Federal Project Number:

TPF-5(353)

PRINCIPAL INVESTIGATOR:

Ming-Shiun Lee, PhD, PE

AECOM Technical Services, Inc.

ANNUAL BUDGET: \$73,123.72

PROJECT EXPENDITURES TO DATE: \$ 5,068.30

WORK COMPLETED:

- Task 0: Project Management
 - Project administration, coordination and management.
 - Project kickoff meeting (June 18, 2021).
- Task 1: Literature Review
 - Collected and reviewed relevant literature on using GPS technology for non-winter maintenance activities and for other industry.
 - Submitted a draft literature review summary for the subcommittee's review.
- Task 2: Survey of Practice
 - Initiated the development of questionnaires for the three surveys.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Task 0: Project Management
 - Project administration, coordination, management, progress reporting and invoicing.
- Task 1: Literature Review
 - Address subcommittee comments and finalize the literature review summary.
- Task 2: Survey of Practice
 - Develop questionnaires for the three surveys.
 - Identify contacts for survey distribution.
 - Execute surveys and conduct follow-ups with survey respondents.
 - Analyze survey responses.

STATUS AND COMPLETION DATE:

On schedule and budget. Expected project completion August 31, 2022.