

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: *Using GIS to Highlight Highway Segments Sensitive to Deicing Materials*

OBJECTIVES: Develop a geospatial tool that incorporates data about roadways, topography, hydrology, and ecology to model the impact of de-icing chemical application on the local environment.

PERIOD COVERED: July 1 to September 30, 2022

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

PROJECT MANAGER:
Hafiz Munir / Tom Peters

LEAD AGENCY: MnDOT

PRINCIPAL INVESTIGATOR:
Mark Gallagher, SRF Consulting Group

SP&R PROJECT NO:
MnDOT Contract No.
1044529

Federal Project Number:
TPF-5(353)

PROJECT IS:

☐ Planning
☒ Research & Development

ANNUAL BUDGET: \$49,279
Total Budget: \$98,558

PROJECT EXPENDITURES TO DATE: \$ 96,538.02

WORK COMPLETED:

- Delivered final version of Tool
- Delivered tool documentation
- Developed amendment based on expanded scope proposed by committee

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Begin work on expanded scope
 - Additional tool functionality
 - Raster to vector data conversions
 - Expanded documentation, including instructional videos

STATUS AND COMPLETION DATE:

Project start was delayed due to committee availability for kickoff.

Some delays in tool development and initial installations by beta testers have made an extension of completion date for delivery of a revised tool attractive. During these initial discussions, Clear Roads decided to expand the project scope to include an upgraded tool and a user's guide. An amendment is currently in negotiations to extend the project end date to March 31, 2023 and increase the budget by \$43,868. Work is expected to resume in late 2022.

Current contract expiration date is 7/31/2022.