

**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:** October 1 to October 31, 2023

**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.  
1044529

**PROJECT IS:**

**LEAD AGENCY:** MnDOT

Federal Project Number:  
TPF-5(353)

Planning  
 Research & Development

**PRINCIPAL INVESTIGATOR:**  
Mark Gallagher, SRF Consulting

**ANNUAL BUDGET:** \$49,279

**REVISED:** \$71,116

**PROJECT BUDGET:** \$155,002

**PROJECT EXPENDITURES TO DATE:** \$ 144,898.77

**WORK COMPLETED:**

- Solicited participants for a second test period.
- Supported test participants.
- Finished edits on first instructional video.
- Made first draft cut of second instructional video.

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:**

- Continued work on expanded scope items.
  - Summarize testing.
  - Finals cuts of both video guides.
  - Submit Draft Final and Final Reports.

**STATUS AND COMPLETION DATE:**

Time and funds were added to the project to allow for revisions to the GIS Tool, expanded testing, and the additional of a User's Guide.