

**State Planning and Research Program  
Quarterly Report**

**PROJECT TITLE:** *Efficacy, Cost, and Impacts of Non-Chloride Deicers: An Educational Primer and Product Information Sheets*

**OBJECTIVES:** The goal of this project is to synthesize available information on non-chloride deicers to allow for a more comprehensive understanding by winter maintenance professionals and allow for easy comparison between products and with sodium chloride (salt brine, rock salt). This will be accomplished through a literature search, survey, and evaluation of currently used standards and tests. Laboratory testing may be used to provide supplemental information. The outcomes will include a comprehensive literature review document, one to two-page product summaries and product information sheets for key non-chloride deicers.

**PERIOD COVERED:** April 1 – June 30, 2022

**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.  
1048127

**PROJECT IS:**  
 Planning  
 Research & Development

**LEAD AGENCY:** MnDOT

**PRINCIPAL INVESTIGATOR:**  
Laura Fay, WTI, Montana State University

Federal Project Number:  
TPF-5(353)

**ANNUAL BUDGET:** \$114,946

**PROJECT EXPENDITURES TO DATE:** \$6,726

**WORK COMPLETED:**

- The kickoff meeting was held April 29, 2022. The kickoff meeting presentation and notes were submitted May 11, 2022.

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

- The Task 1 literature review and Task 2 draft survey questionnaire will be submitted.
- A meeting will be scheduled and held to review the Task 1 and 2 deliverables.
- The Task 2 survey will send out.

**STATUS AND COMPLETION DATE:** No issues to report at this time.