

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: *pH Waiver for Deicing Products and the Qualified Products List*

OBJECTIVES: This project aims to develop recommendations for pre-wetting rates and evaluate the difference between applying pre-wet in the chute vs. on the chain flight or in a mix chamber.

PERIOD COVERED: October 1 – December 31, 2023

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

Washington State University – Prime

Monte Vista Associates LLC – Subcontractor

PROJECT MANAGER:

Hafiz Munir / Tom Peters

LEAD AGENCY: MnDOT

PRINCIPAL INVESTIGATOR:

Xianming Shi, Washington State University

SP&R PROJECT NO:

MnDOT Contract No.

1052957

Federal Project Number:

TPF-5(479)

PROJECT IS:

Planning

Research & Development

ANNUAL BUDGET: FY22: \$124,154;

FY23: \$25,377

PROJECT BUDGET: \$149,531

PROJECT EXPENDITURES TO DATE: \$3,906

WORK COMPLETED:

The PI worked with the project TAC to hold the kickoff meeting online, on December 1, 2023. Then the PI submitted the presentation slides and the draft meeting notes.

Task 1 (Literature Search): 30% complete. The team has gathered some relevant literature and started the literature search process.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

Project management activities.

Task 1 (Literature Review): to complete.

Task 2 (Developing the Testing Plan): to initiate and ideally to complete.

STATUS AND COMPLETION DATE:

This project is on schedule. The contract end date is April 30, 2025.