State Planning and Research Program Quarterly Report

PROJECT TITLE: High Performance Plow Blade Evaluation

OBJECTIVES: The objective of this project is to develop a field test protocol and cost-benefit analysis methodology that may be reproduced by Clear Roads agencies in future testing, so that other blades may be evaluated and compared using the same standard procedures used in this project.

PERIOD COVERED: October 1 to December 31, 2021

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

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PROJECT MANAGER:	SP&R PROJECT NO:	PROJECT IS:
Hafiz Munir / Tom Peters	MnDOT Contract No.	
	1031542	Planning
LEAD AGENCY: MnDOT		X Research & Development
	Federal Project Number:	
PRINCIPAL INVESTIGATOR:	TPF-5(353)	
William Schneider IV, PhD.,		
University of Akron		
ANNUAL BUDGET : \$195,746.58	PROJECT EXPENDITURES TO DATE: \$71,340	
(Project Budget)		

WORK COMPLETED:

- Task 1: Literature review complied in matrix-style summary (100%)
- Task 2: Survey of DOTs in matrix-style summary (100%)
- Task 3: List of potential blades and testing locations for research (100%)
- Task 4: Design Test Protocol (80%)
- Task 5: Field data collection (80%)
- Task 6: Standard Test Protocol (90%)
- Task 7: Cost-Benefit Analysis (95%)
- Task 8: Quick Reference Guide (95%)
- Task 9: Final Report (95%)

Values for the tasks above were adjusted to reflect the new work required by the addendum.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER: We are planning on doing future work involving testing new blades in the lab.

STATUS AND COMPLETION DATE: The majority of the work over this quarter was to coordinate the shipping of blades from various locations around the country to a lab that will do the work.