

State Planning and Research Program Quarterly Report

PROJECT TITLE: *Developing a Snow and Ice Control Environmental Best Management Practices Manual*

OBJECTIVES: • Assess and communicate the impacts of different snow and ice control products as well as the current environmental best practices for using chlorides in a responsible and affordable snow and ice control program.

PERIOD COVERED:

Jan. 1, 2014 – Mar. 31, 2014

PARTICIPATING AGENCIES:

Western Transportation Institute, Montana State University

PROJECT MANAGER: Tom Peters

SP&R PROJECT NO:

PROJECT IS:

LEAD AGENCY: Mn/DOT

Planning

Research & Development

PRINCIPAL INVESTIGATOR:

Laura Fay

ANNUAL BUDGET:

\$180,107

PROJECT EXPENDITURES TO DATE:

\$15,696.97

WORK COMPLETED:

Project Management

Project management activities during the quarter were focused on budget and timeline maintenance. To date, the project is on budget and time.

Task 1. Literature Search (60% completed)

The researchers continued the literature search which focuses on the impacts of chloride based and non-chloride based snow and ice control products and sand, and environmental best practices for snow and ice control. Work to date has identified relevant documents and summarized this information in the Task 1 deliverable document. This document will be completed and delivered to the project panel in April.

Task 2. Survey (5% completed)

The researchers will conduct a survey of Clear Roads member states, as well as U.S. and international winter maintenance professionals to address the identified informational gaps from existing research. To date, existing information and data gaps are being identified which will be presented to survey participants for verification and feedback.

Task 3. Analysis of Tasks 1 & 2 (0% completed)

The researchers will analyze the information gathered in Tasks 1 and 2 to organize the identified impacts and environmental best practices presented in each document and from the survey. This information will further be organized into a table that presents the specific impacts, performance characteristics, and environmental best practices for each snow and ice control product.

Task 4. Development of a Best Management Practices Manual (0% completed)

The researchers will prepare and submit the developed manual based on information gained and developed in the previous tasks.

Task 5. Final Report and Presentation (0% completed)

The researchers will prepare and submit a final report of the work completed, include an executive summary, introduction, methodology, results for each task, the BMP manual, and conclusions, as well as a power point presentation of the contents of the BMP manual.

Task 6. Final Report to Web Document (0% completed)

The researchers will convert the approved final report into a pdf based web document.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

Work in the coming quarter will consist of Task 1: Complete the review of existing research on the impacts of chloride based and non-chloride based snow and ice control products and sand, and environmental best practices for snow and ice control that are the focus of the project and deliver a task report on that information to the project panel for review and comment. The Task 2 survey will also be developed and conducted during the upcoming quarter.

STATUS AND COMPLETION DATE:

On time and on schedule. Completion date – December 31, 2014