

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, 2015 – March 31, 2015

PARTICIPATING AGENCIES:

Western Transportation Institute, Montana State University – Prime
Monte Vista Associates LLC, Arizona – Subcontractor
Venner Consults, Inc. - Subcontractor

PROJECT MANAGER: Tom Peters

SP&R PROJECT NO:

PROJECT IS:

LEAD AGENCY: Mn/DOT

TPF-5(218)
Contract#99006
WO#3

Planning
 Research & Development

PRINCIPAL INVESTIGATOR:

Laura Fay

ANNUAL BUDGET:

\$180,107

PROJECT EXPENDITURES TO DATE:

\$180,107

WORK COMPLETED:

Project Management

Project management activities during the quarter were focused on budget and timeline maintenance.

Task 1: Literature Search (100% completed)

The researchers completed and submitted the literature search to the Technical Panel for review. The Literature Search 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. Comments on the Literature Search from the Technical Panel were just received and all requested edits will be completed and incorporated in the Manual (Task 4) and Final Report (Task 5)

Task 2: Survey (100% completed)

The researchers developed a survey and sent it out to Clear Roads to disseminate. The survey targeted Clear Roads member states, as well as U.S. and international winter maintenance professionals to address the identified informational gaps from existing research. The survey results have been written up and incorporated in the Manual and Final Report. Five follow up interviews were conducted to gather additional information and were developed into Case Examples to be used in the Task 4 Manual. This task was submitted to the Technical Panel.

Task 3. Analysis of Tasks 1 & 2 (100% completed)

The researchers analyzed the information gathered in Tasks 1 and 2 on identified impacts and environmental best practices presented in each document and from the survey. This information was organized into summary tables which present information on the specific impacts, performance characteristics, and environmental best practices for each snow and ice control product. This task was submitted to the Technical Panel and revised based on Technical Panel feedback.

Task 4. Development of a Best Management Practices Manual (100% completed)

The researchers have developed the manual based on information gather from all previous tasks. The Best Management Practices Manual was submitted to the project panel for review.

Task 5. Final Report and Presentation (100% completed)

The researchers have prepared and will submit a final report of the work completed, including an executive summary, introduction, methodology, results for each task, the revised 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 (75% completed)

The researchers will convert the Best Management Practices Manual and Final Report into pdf based web documents once approved by the project panel.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

In the next quarter any necessary revisions to the Task 4 Manual and Task 5 Final Report will be made. Once all revisions to Task 4 and 5 have been completed and approved the Task 6 Converting the Final Report to a Web Document will be completed.

STATUS AND COMPLETION DATE: