## State Planning and Research Program Quarterly Report

		Quarterly Report			
<b>PROJECT TITLE</b> : Synthesis <b>OBJECTIVES</b> : The goal application rates, materia	l of this research i	s to <i>"create a synthes</i>	is of best m	anagement practices for	
applied directly or as add			0	5	
<b>PERIOD COVERED</b> : Jan. 1, 2017– March 31, 201					
PARTICIPATING AGE					
Washington State University Monte Vista Associates LLC	– Prime				
<b>PROJECT MANAGER:</b>		SP&R PROJECT N	O: PRC	DJECT IS:	
Tom Peters		MnDOT No. 1001320			
		111112 0 1 100 1001320	0	Planning	
LEAD AGENCY:		Enderal Project No		-	
		Federal Project No.	$\underline{X}$ Research & Developr		
Mn/DOT		TPF-5(218)			
PRINCIPAL INVESTIG	LATOR.				
Xianming Shi, Ph.D., P.E.					
ANNUAL BUDGET:			DITURES TO DATE:		
\$117,658	7,658 \$61,992				
WORK COMPLETED:					
Project Management					
This includes the submission	n of quarterly progres	ss report by the project P	I to the Clear	Roads program in Jan. 2017 and	
some communications betwee	een the PI and the C	lear Roads coordinator, a	as well as betw	ween the PI and the consultant.	
Task 1. Literature review (92					
				2016. It highlights current	
practices, innovative practice					
		d weather scenarios (terr	nperature rang	ges, storm conditions, and other	
climate and operating condit	ions).				
Task 2. Interview Plan (100%	(completed)				
		plan was submitted to th	ne panel for re	view	
Task 3. Interviews (95% com	npleted)				
Title	Agency		Interview Time	2	
N/A	WYDOT		7/18/2016		
RWIS Coordinator	IADOT		7/18/2016		
SE Coast Region Director	AKDOT		7/19/2016		
Director of Public Works	Public Works, Dubuque, IA		8/28/2016		
N/A	City of Lexington, MA		8/28/2016		
Director of Public Works	Public Works, Des Moines, IA		8/29/2016		
N/A	Public Works, Des Moines, IA		8/29/2016		
retired Superintendent	McHenry County, IL		8/29/2016		
Street Superintendent	City of Minneapolis, MN		written response		
Senior Principal Engineer	Norwegian Public Roads Administration		1/8/2017		
Program Manager	New York State DOT		1/10/2017		
Research Coordinator	Ontario Ministry of Transportation		1/17/2017		
Bureau Chief of Maintenance	Kansas DOT		1/18/2017		
Maintenance Engineer	Denver Public Works   City and County of Denver		1/18/2017		
Winter Maintenance Specialist				1/20/2017	
Program Manager	WSDOT		1/23/2017		

Vermont Agency of Transportation, Maintenance a 1/24/2017

2/2/2017

Maintenance Engineer

Winter Operations Administrato Iowa DOT

A total of 18 valid interviews (7 in person, 10 via phone, and 1 written response) were conducted by the research team and the detailed list is provided as above.

## Task 4. Guidebook (18% completed)

The research team has drafted an outline for the Guidebook and started work on some sections based on the information from Task 1 (Literature review) and Task 3 (Interviews). The goal is to synthesize, analyze, and organize the data into a brief, instructive, and professionally created handbook, similar to the Snowfighters' Handbook available at <a href="http://www.saltinstitute.org/road/snowfighting/">http://www.saltinstitute.org/road/snowfighting/</a>.

Task 5. Final report (5% completed)

Task 6. Final presentation (0% completed)

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

Work in the coming quarter will consist of project management as well as the completion of Task 1 and Task 3 and continued work on Task 4.

## STATUS AND COMPLETION DATE:

On budget but about three months behind the revised schedule on Tasks 3 to 6. Another no-cost time extension will be submitted soon, with the modified timeline as follows.

Task	Current Task Start Date	Current End Date for Task Approval	Revised Task Start Date	Revised Due Date to Submit Draft Deliverables	Revised End Date for Task Approval
1	05/25/2016	09/15/2016	05/25/2016	10/15/2016	12/15/2016
2	05/25/2016	07/30/2016	05/25/2016	Not Applicable	07/30/2016
3	07/15/2016	03/15/2017	07/15/2016	04/15/2017	06/15/2017
4	12/15/2016	06/15/2017	12/015/2016	07/15/2017	09/15/2017
5	04/01/2017	08/31/2017	04/01/2017	09/30/2017	11/30/2017
6	07/01/2017	09/30/2017	07/01/2017	10/30/2017	12/31/2017