

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE:

Optimal Timing of Preventive Maintenance for Addressing Environmental Aging in HMA Pavements (MnROAD Study)

OBJECTIVES: The goal of this study is to determine the proper timing of preventive maintenance treatments in order to optimize life cycle costs and pavement performance. Environmental aging of the asphalt binder in the underlying pavement is not well understood, and this project will seek to better understand the aging mechanism and how it can be reduced through pavement preservation.

PERIOD COVERED:

April 1 to June 30, 2011

PARTICIPATING AGENCIES:

MN, OH, TX, MD, WI, LRRB

PROJECT MANAGER:

Thomas J. Wood

SP&R PROJECT NO:

TPF-5 (153)

PROJECT IS:

Planning
 Research & Development

LEAD AGENCY:

Mn/DOT

PRINCIPAL INVESTIGATOR:

Asphalt Institute

ANNUAL BUDGET:

Total Funds = \$375,000
(\$351K possible contract + 24K Agency Admin)

PROJECT EXPENDITURES TO DATE:

\$70061.14 has been as of June 16, 2011.

WORK COMPLETED: Testing of samples is being worked on at the Asphalt Institute.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

1. Based on results of testing of samples and cores adjustments to the testing and sampling will be made to help with outcome.
2. Will schedule annual review of sites with AI for third quarter of 2011
3. Supper TAP meeting at MnRoad August 2011

STATUS AND COMPLETION DATES:

1. See Above and web site for more details.