

**TRANSPORTATION POOLED FUND PROGRAM  
 QUARTERLY PROGRESS REPORT  
 for  
 National Partnership to Improve the Quality of Pavement Preservation Treatment  
 Construction & Data Collection Practices (PG Phase III)**

**Lead Agency:** Minnesota Department of Transportation

<b>Transportation Pooled Fund Program Project #</b> TPF-5(522) <a href="https://pooledfund.org/Details/Study/754">https://pooledfund.org/Details/Study/754</a>		<b>Report Period:</b> 2024 - Quarter 3 July 1 - September 30, 2024
<b>Project Title: National Partnership to Improve the Quality of Pavement Preservation Treatment    Construction &amp; Data Collection Practices (PG Phase III)</b>		
Project Website being determined (Not fully developed yet add)		
This pooled fund is the third pooled fund looking at the effectiveness of preservation treatments. "PG1" led by Alabama DOT and "PG2" led my Minnesota DOTNRRRA quarterly reports for Phase-I and Phase-II are being combined because of existing projects in phase-I that are still ongoing and still pertain to the NRRRA efforts that are being done in phase-II. Both websites will be updated with the same quarterly report. Individual budgets are attached to this quarterly report for both efforts.		
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<b>Pooled Fund Start Date:</b> January 1, 2024	<b>Pooled Fund End Date:</b> December 31, 2029	<b>Duration:</b> 5 years
<b>Contracted Contractors:</b> Auburn University National Center Pavement Preservation	<b>Contract (MnDOT #):</b> 1055574 1055609	<b>Contractor Start/End Date:</b> 3/8/2024 – 12/31/2028 3/15/2024 – 12/31/2028
Auburn University National Center Pavement Preservation	<b>Number of Extensions:</b> 0 0	<b>Extension Date:</b> NA NA

**Project schedule status**  On schedule

**Phase – 1 TPF-5(522) Overall Project Statistics:**

Total Project Budget	Total Costs obligated to Date for Project	Percentage of Time and Funding Completed to Date
<b>Total Funding Expected</b> (based on agency discussion) \$4,710,000	<b>Overall</b> <b>\$758,048.90</b>	<b>Pooled Fund</b> 9/60 months = 15%
<b>SPR (522) agency obligations</b> (Pooled Fund Website / MnDOT) \$2,810,000	<b>Auburn University</b> \$228,315.06/\$1,712,362.95 13.3% paid	<b>Contracts</b> 9/48 months = 18.75%
<b>SPR (375) Rollover (estimated)</b> \$475,000	<b>National Center for Pavement Preservation</b> \$529,733.84/\$2,446,937.00 (includes Agency Travel) 21.7% paid	

**Project Description:**

The use of the right pavement preservation surface treatment at the right time on the right road can improve the condition level and extend the service life of a pavement structure. When properly applied or constructed, they optimize performance of the pavement. By monitoring the timing, placement, and performance of pavement preservation treatments through applied research, the optimal timing for placement can be determined and performance grading specifications developed, improving overall pavement performance.

This pooled-fund study will support state highway agencies (SHAs) and other Local Public Agencies (LPAs) by improving the application and quality of pavement preservation treatments on their pavements under live traffic conditions. The study will also provide guidance and funding to SHAs and LPAs in an effort to standardize or harmonize treatment strategies, address implementation efforts, and develop best construction practices utilizing their existing specifications or available AASHTO standards. For the study to be valuable, documentation of pretreatment pavement condition is critical along with monitoring of post treatment performance. The study will use established and proven data collection procedures such as those from the Long-Term Pavement Performance (LTPP) program to monitor the pavement preservation treatments. This data will be available to the public through an online system (e.g. [LTPP InfoPave™](#) web portal).

**Progress this Quarter**

**(includes meetings, work plan status, contract status, significant progress, etc.):**

NCPP

**Task 1 –**

- ✓ Held engagement meetings to report on the project status including Q/A, clarifying, and discussion sessions with participating states. These meeting were held, based on the regional geographical locations of the participating states, as follow:
  - Northeast = 7/17/24
  - Southeast = 7/22/24
  - Midwest = 7/22/24
  - Rocky Mountain West = 7/23/24
- ✓ Subsequently, and based on the discussion and feedback received during these regional engagement meetings, the descriptive summary of the different projects from these participating state (as available as of the date of the subject report) was updated and compiled.
- ✓ Construction form was developed for Spray Applied Rejuvenator.

**Task 4 –**

- ✓ Developed the project materials and testing matrix.
- ✓ Developed the Project Overview template for one-pager summaries.
- ✓ Pavement Preservation Journal article for winter edition was prepared and submitted.
- ✓ Provide a project introduction and update at the recent AASHTO Committee on Maintenance Meeting

**Task 5 –**

- ✓ A virtual TAP meeting was held August 29, 2024.
- ✓ In addition, weekly “Touch Point” meetings were conducted with the MnDOT leads and NCAT PI on July 19, 26, August 2, 9, 16, 23, 30, September 20 and 27 2024, respectively.
- ✓ Plans are being prepared to hold the second annual in person TAP meeting in conjunction with the Rocky Mountain West Pavement Preservation Partnership (RMWPPP) Meeting on November 14, 2024, in Sacramento, CA.

Task 6 -

- ✓ Finalized processing of travel reimbursements for May 2024 TAP Meeting
- ✓ Finalized payment to hotel and NCAT for the May 2024 TAP Meeting.
- ✓ Finalized financial information on total meeting and travel costs for May 2024 TAP Meeting and submitted to MN DOT for payment.
- ✓ Communicated meeting details with TAP Members for November Fall 2024 TAP Meeting
- ✓ Prepared all the miscellaneous and associated correspondence.

NCAT

Task 1 –

- ✓ Performance data collection and analysis of existing sections continued following the same process established during Phases I and II of the study.
- ✓ Worked with MnDOT to obtain cores from US-169 test sections and started testing for forensic analysis.
- ✓ Worked with MnDOT to coordinate FWD testing on 70<sup>th</sup> Street sections.

Task 2 –

- ✓ Assisted in the development of construction data forms.

Task 3 –

- ✓ Worked with MnDOT and NCPP to establish minimum performance reporting requirements for new sections.

Task 5 –

- ✓ Participated in virtual TAP meeting held August 29, 2024.
- ✓ Assisted in planning in-person TAP meeting to be held in conjunction with RMWPPP regional meeting.
- ✓ Presented at AASHTO Committee on Maintenance Annual Meeting on August 13, 2024.
- ✓ Submitted article to Pavement Preservation Journal (Fall 2024 issue).

**Anticipated work next quarter:**

The following is expected to be completed for next quarter.

NCPP

- ✓ Task 1 – Continue development of project data forms as needed based on project submittals
- ✓ Task 1 – Project nominations will be compiled and reviewed as they are submitted
- ✓ Task 3 – Continue to work with states to fill in project treatments and schedules.
- ✓ Task 3 – Work with states to review specifications and provide technical support.

- ✓ Task 5 – Conduct in person TAP meeting at RMWPPP

#### NCAT

- ✓ Task 1 – Continue data collection and analysis of existing sections. Perform testing for forensic analysis of US-169 test sections.
- ✓ Task 2 – Review nominations as needed.
- ✓ Task 5 – Assist with planning and participate in TAP meetings (online and in-person).

### **Significant Results:**

#### NCPP

- ✓ Developed project materials and testing matrix
- ✓ Provided direct support to Alaska DOT for project selection
- ✓ Finalized all the subsequent logistical and accounting tasks for the May 2024 TAP Meeting

#### NCAT

- ✓ Continued data analysis to provide information on treatment performance that can help agencies improve their pavement management practices.
- ✓ In coordination with MnDOT and NCPP, continued development of implementation phase activities.

### **Potential Implementation:**

#### NCPP

- ✓ Participating states may begin uploading nominating projects. Project support and implementation will follow.

#### NCAT

- ✓ NCAT will help review project nominations, provide support prior to construction, and assist NCPP with onsite visits as needed. NCAT will conduct material testing of samples collected during construction.

**Attachment – A (PG3) – 10/15/2024 Income Summary Report**

**TPF-5(522) - Improving the Quality of Preventive Maintenance Construction and Data Collection Practices - Continuation of TPF-5(345) - TPF-5(522)**

	2023	2024	2025	2026	2027	Total
Income:						
<b>AK</b>	0.00	50,000.00	0.00	0.00	0.00	50,000.00
	0.00	50,000.00	0.00	0.00	0.00	50,000.00
<b>AL</b>	50,000.00	50,000.00	50,000.00	0.00	0.00	150,000.00
	50,000.00	50,000.00	50,000.00	0.00	0.00	150,000.00
<b>CO</b>	0.00	50,000.00	50,000.00	50,000.00	0.00	150,000.00
	0.00	50,000.00	0.00	0.00	0.00	50,000.00
<b>ID</b>	150,000.00	50,000.00	50,000.00	0.00	0.00	250,000.00
	150,000.00	50,000.00	0.00	0.00	0.00	200,000.00
<b>IL</b>	0.00	50,000.00	50,000.00	50,000.00	0.00	150,000.00
	0.00	50,000.00	0.00	0.00	0.00	50,000.00
<b>MD</b>	0.00	50,000.00	50,000.00	50,000.00	50,000.00	200,000.00
	0.00	50,000.00				50,000.00
<b>MI</b>	0.00	50,000.00	50,000.00	50,000.00	50,000.00	200,000.00
	0.00	50,000.00				50,000.00
<b>MN</b>	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	250,000.00
	50,000.00	50,000.00				100,000.00
<b>MS</b>	0.00	50,000.00	50,000.00	50,000.00	50,000.00	200,000.00
	0.00	50,000.00				50,000.00
<b>NC</b>	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	250,000.00
	50,000.00					50,000.00
<b>ND</b>	250,000.00	0.00	0.00	0.00	0.00	250,000.00
	250,000.00	0.00	0.00	0.00	0.00	250,000.00
<b>NY</b>	0.00	50,000.00	50,000.00	50,000.00	50,000.00	200,000.00
	0.00	50,000.00	0.00	0.00	0.00	50,000.00
<b>SC</b>	0.00	50,000.00	50,000.00	50,000.00	50,000.00	200,000.00
	0.00	50,000.00				50,000.00
<b>TX</b>	0.00	50,000.00	50,000.00	50,000.00	50,000.00	200,000.00
		50,000.00				50,000.00
<b>WA</b>	0.00	20,000.00	20,000.00	20,000.00	0.00	60,000.00
	0.00	20,000.00	0.00	0.00	0.00	20,000.00
<b>WI</b>	0.00	50,000.00	0.00	0.00	0.00	50,000.00
	<u>0.00</u>	<u>50,000.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>50,000.00</u>
<b>Total</b>	<b>550,000.00</b>	<b>720,000.00</b>	<b>620,000.00</b>	<b>520,000.00</b>	<b>400,000.00</b>	<b>2,810,000.00</b>
<b>Committed</b>	<b>550,000.00</b>	<b>670,000.00</b>	<b>50,000.00</b>			<b>1,270,000.00</b>
<b>Total Received</b>						

**Attachment – B (PG3) – 10/15/2024 Financial Summary Report**

<b>Expenditures:</b>	<b>Encumbrances</b>	<b>Actual Paid</b>	
TPF15522S: Salaries			
TPF15522T: Travel			
National Partnership to Improve the Quality of Preventive Maintenance Treatment Construction & Data Collection Practices (Research)	1,369,890.40		
TPF-5(522) - Improving the Quality of Preventive Maintenance Construction and Data Collection Practices - Continuation of TPF-5(345)	2,431,061.90	360,805.32	
	<u>3,800,952.30</u>	<u>360,805.32</u>	3,800,952.30
	<b>Available Balance:</b>		<b>\$-990,952.30</b>