TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State	DOT): M	laine Departmer	nt of Transportation	ı	
INSTRUCTIONS: Lead Agency contacts should comp Please provide a project schedule s completion of each task; a concise encountered, if any. List all tasks, o	tatus of the ro	esearch activities tie or 3 sentences) of t	ed to each task that is o he current status, inclu	defined in th	ne proposal; a percentage
Transportation Pooled Fund Program Project #			Transportation Pooled Fund Program - Report Period:		
(i.e, SPR-2(XXX), SPR-3(XXX) or TP TPF-5(373)		☑ Quarter 1 (January 1 – March 31)		31)	
			□Quarter 2 (April 1 – June 30)		
			□Quarter 3 (July 1 – September 30)		
		Quarter 4 (October 1 – December 31)			
TPF Study Number and Title: TPF-5(373) New England Transportation Conso Lead Agency Contact: Jeffrey Pulver		Lead Agency Phone Number: 207-446-1009		Lead Agency E-Mail jeffrey.pulver@maine.gov	
Lead Agency Project ID: 23430.18		Other Project ID (i.e., contract #): Click or tap here to enter text.		Project Start Date: 1/4/2018	
Original Project Start Date: 1/4/2018		Original Project End Date: 6/30/2022		If Extension has been requested, updated project End Date: 12/31/2024	
Project schedule status:		-			
☐On schedule		vised schedule		edule	
Overall Project Statistics:					
Total Project Budget		Total Funds Expended This Quarter		Percentage of Work Completed to Date	

\$71,682.31

85%

\$2,734,259.00

Project Description:

A transportation research program, where research projects are conducted primarily by the Land Grant Universities of the New England states. This study was preceded by TPF-5(222), TPF-5(201), TPF-5(168), SPR-3(089), SPR-3(029), and SPR-3(009). Other State DOTs may participate in individual research projects by providing funds and a project technical committee member to represent their agency.

The New England Transportation Consortium (NETC) is a research cooperative between the state transportation agencies of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont. NETC is a valuable regional partnership for the identification, prosecution and dissemination of shared transportation research initiatives. NETC represents:

- Financial leveraging opportunities and regional partnerships.
- Stronger partnerships between university faculty and state transportation agencies.
- User-defined, diverse research topics.
- Opportunities for research dissemination and training to practitioners in the field.

Now in its third decade, NETC was developed to help New England states meet their special research needs by pooling resources and expertise. NETC is now a well-established successful multi-state partnership.

The objective of the pooled fund is to pool the financial, professional and academic resources of the region and to use them to research and develop improved methods of dealing with common problems in the planning, design, construction, maintenance, rehabilitation, reconstruction, and operation of transportation systems in the participating states. The program is intended to supplement, not to replace, ongoing state and federal research activities and other national programs such as the Cooperative Research Programs of the National Academies.

Progress this Quarter

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

Monthly Advisory Committee meetings held on 1/23/24, 2/27/24 and 3/26/24.

19-3: Deteriorated Steel Beam Ends - UMass Amherst

- Project timeline: 9/18/20 1/31/24. Project budget: \$179,995
- Task 5 (Draft Final Report) Complete.
- Project webinar held on 3/15/24.
- Project complete.

20-2: Current Status of Transportation Data Analytics and AI Pilot Case Study Using Artificial Intelligence (AI)- \$200,000

- Project timeline: 5/5/21 12/31/23. Project budget: \$179,995
- Project webinar held on 2/20/24.
- Project complete.

21-3: Initiating Seed Production for Effective Establishment of Native Plants on Roadsides in New England - \$200,00

- Project timeline: 5/18/22 6/30/24. Project budget: \$200,000
- Task 2 (Investigate local seed production opportunities) In progress.
- Task 3 (Establish demonstration plots) In progress.
- TC meetings held on 2/5/24 and 3/5/24.

2024 Topical Discussion Events

- Animal Vehicle Collision Avoidance Topical Discussion held on 1/25/24.
- Geotech Topical Discussion held on 3/21/24.
- Advanced Air Mobility Regional Plan Topical Discussions held on 2/13/24 and 3/6/24.
- e-Construction for Pavements Planning Team meeting held on 3/26/24. The planning team decided to not move forward with a Topical Discussion on this topic.

Remediation of NETC final reports

- CTC remediated the final reports for the following research projects.
 - All final reports, except for the still in-progress NETC 21-3, have been remediated.

NETC Research Peer Exchange

- CTC and the research staff from CT, ME and NH began the planning the NETC Research Peer Exchange.
- Planning meetings held on 1/24/24 and 2/25/24.

Administration Contract

- CTC & Associates scheduled, facilitated and distributed minutes for the 1/23/24, 2/27/24 and 3/26/24 Advisory Committee meetings.
- CTC & Associates continued to manage all research projects.
- CTC & Associates tracked implementation of research projects.
- CTC & Associates updated the NETC website as needed.

Anticipated work next quarter:

Monthly Advisory Committee meetings to be held on 4/23/24 and 5/28/24.

21-3: Initiating Seed Production for Effective Establishment of Native Plants on Roadsides in New England - \$200,000

TC meetings scheduled for 5/1/24 and 6/4/24.

2024 Topical Discussion Symposiums

- Advanced Air Mobility Regional Plan Follow up planning team meeting scheduled for 5/13/24 for the planning team to discuss next steps to move forward as a regional group.
- CTC will post the materials for all Topical Discussions on the NETC website.

NETC Research Peer Exchange

- CTC and the research staff from CT, ME and NH will continue planning the NETC Research Peer Exchange.
- Planning meetings scheduled for 5/21/24 and 6/11/24.
- The peer exchange will be held from June 25-27, 2024 in Concord, NH.

Administration Contract

- CTC & Associates will facilitate and distribute minutes for the 4/23/24 and 5/28/24 Advisory Committee meetings.
- CTC & Associates will continue project management of all research projects.
- CTC & Associates will continue to track implementation of research projects.
- CTC & Associates will update the NETC website as needed.

Significant Results:

See Progress This Quarter section.

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).

None.

Potential Implementation:

18-1: Development of MASH Computer Simulated Steel Bridge Rail and Transition Details

- ME is implementing 18-1 results, confirming NETC steel bridge rail is MASH crashworthy and adjusting our standard details to reflect recommended changes (for improved performance). ME does not plan on having MASH crash tests done.
- VTrans S-360 series standards for the NETC 2-Rail bridge rail and approach rail are being updated to reflect the findings in the study by VTrans. S-361 series NETC 3-Rail bridge rail and approach rail are being developed. NETC 20-1: In-Service Performance Evaluation of NETC Bridge Railings is a follow up to this project.
- ME submitted this project as a High Value Research project and it was selected as a Sweet Sixteen project.

18-2: Framework of Asphalt Balanced Mix Design for New England Agencies

- VTrans will implement aspects of this project. VTrans will base their pass/fail criteria for performance test results during mix design review/approval on the anticipated traffic loads, at least for Hamburg results.
- NHDOT feels the lowest level of BMD may be realistic and beneficial for to implement at some point in the future.
- The Connecticut Advanced Pavement Lab is building a library of BMD test results, which will be implemented once the library is complete.

18-3: Integration of Unmanned Aircraft Systems (UAS) into Operations Conducted by State Departments of Transportation

- A UAS New England peer group formed as a result of this project.
- NH is pursuing a UAS implementation plan that will build off the NETC project. The NETC project provided a broad base while the NHDOT plan will be specific to New Hampshire needs.
- VTrans will use the project's results to look at new platforms, as a starting point to fill in gaps in their existing UAS procedures and workflows, and as a reference for future discussions in the peer group.

20-1: In-Service Performance Evaluation of NETC Steel Bridge Railings is a follow on project to 18-1: Development of MASH Computer Simulated Steel Bridge Rail and Transition Details.