

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 12/31/2013

Lead Agency (FHWA or State DOT): Vermont Agency of Transportation

INSTRUCTIONS:

Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.

Transportation Pooled Fund Program Project # <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i> TPF-5(222)		Transportation Pooled Fund Program - Report Period: <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input checked="" type="checkbox"/> Quarter 4 (October 1 – December 31)	
Project Title: New England Transportation Consortium (VI)			
Name of Project Manager(s): Bill Ahearn	Phone Number: 802-828-2561	E-Mail Bill.Ahearn@state.vt.us	
Lead Agency Project ID: CA0306	Other Project ID (i.e., contract #): NETC 06-4 NETC 07-1 NETC 09-2 NETC 09-3 NETC 10-3	Project Start Date: 9/16/13 7/1/13 9/1/13 9/1/13 9/16/13	
Original Project End Date: NETC 06-4 9/15/15 NETC 07-1 3/31/16 NETC 09-2 2/28/16 NETC 09-3 8/31/15 NETC 10-3 9/15/15	Current Project End Date: 9/15/15 3/31/16 2/28/16 8/31/15 9/15/15	Number of Extensions: 0 0 0 0 0	

Project schedule status:

- On schedule
 On revised schedule
 Ahead of schedule
 Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
NETC 06-4 \$242,909	\$0	0%
NETC 07-1 \$198,154	\$3,380	8%
NETC 09-2 \$80,000	\$400	10%
NETC 09-3 \$165,000	\$13,765	34%
NETC 10-3 \$150,158	\$0	0%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter			Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
NETC 06-4	\$0	0%	\$0	14%
NETC 07-1	\$3,380	0%	\$0	16%
NETC 09-2	\$400	0.5%	\$400	8%
NETC 09-3	\$13,765	8.3%	\$13,765	13%
NETC 10-3	\$0	0%	\$0	14%

Project Description:

- 06-4 Preventative Maintenance and Timing of Applications
- 07-1 In-Place Response Mechanisms of Recycled Layers Due to Temperature and Moisture Variations
- 07-3 Determining Optimum Distance for a Lane Drop Downstream from a Signalized Intersection
- 09-2 Effective Establishment of Native Grasses on Roadsides
- 09-3 Advanced Composite Materials: Prototype Development and Demonstration
- 10-3 Low Temperature and Moisture Susceptibility of RAP Mixtures with Warm Mix Technology

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

06-4, UMass Dartmouth is organizing the kickoff meeting for the week of January 20th, 2014. Also, UMass is developing an internet survey to properly determine the critical factors that relate to the selection and timing of a particular pavement preservation treatment.

07-1, The research team received the results of the Task 1 survey, collated the results, and held the initial meeting with the TC via webmeeting on November 6, 2013. Based on the currently available sites, the research team has developed a plan for testing two existing sites in NH (Kancamangus and Warren Flats) during the 2014 spring thaw.

09-2, The following activities were implemented during this reporting period: Kuzovkina met with the CT DOT transportation landscape designers Susan Fiedler in Storrs, CT on September 4, 2013 to discuss the selection of native grasses for a new site in Connecticut. First meeting of the project PIs at the Connecticut College Arboretum, New London, CT on September 13, 2013. Visited a few native grass planting at the Connecticut College Arboretum, to evaluate native grasses plantings and to discuss plant selection. Attended: Glenn Dryer, Robert Ricard, Cristian Schulthess, Julia Kuzovkina and three graduate students. Preliminary specifications of native grass plantings were sent to Susan Fiedler on September 20, 2013. 1st meeting with the Project Technical Committee took place on November 6, 2013 at the MassDOT District 3 Headquarters. Attended: Robert Moosmann, Susan Fiedler, George Batchelor, Guy Giunta, Robert Ricard, Cristian Schulthess, Glenn Dryer, Julia Kuzovkina. The initial plan for the field testing, survey instrument and manual content were discussed. Development of the survey instrument was initiated by Robert Ricard and three graduate students assisting with this project. 1st meeting with a stakeholder – the native seed producing company Colonial Seed LLC (Windsor, CT) took place on November 13, 2013 at the University of Connecticut in Storrs. Attended: Don Woodall, Mark Lavoie, Robert Ricard, Cristian Schulthess, Julia Kuzovkina and three graduate students. The best approaches to the manual compilation and potential mixtures for the demonstration plots were discussed. 2st meeting with the stakeholders – administrators and staff of the Colonial Seed LLC and Landscape Architect Horace Aikman (CRJA-IBI from Boston, MA) took place on December 2, 2013 at the office of the Colonial Seed LLC in Granby, CT. The discussion of the plant selection for roadside planting followed by a field trip to observe the native grasses research plots of the Colonial Seed LLC in Windsor, CT. Meeting with the CT DOT transportation landscape designers and Susan Fiedler December 2, 2013 to identify the location for the demonstration plots along Rt.6. Attended: Bruce Villwock Susan Fiedler, Greg, Robert Ricard, Cristian Schulthess, Julia Kuzovkina. Three sites were identified as suitable for spring establishment of the demonstration plots.

09-3, Vendors have been screened and selected for participation. Drain designs from participating DOTs were collected for review and comparison. Material properties are under review and being evaluated for inclusion to the specifications. Specifications are being re-written to comply to the FHWA specification format, completion date for end of January 2014. Questionnaire drafted and circulated to DOTs regarding problem areas and best practices as viewed by design and field Maintenance departments.

10-3, UMass Dartmouth contacted several producers of asphalt mixtures about their availability and willingness to participate in the study. Two producers, Palmer from Massachusetts and Tilcon from Connecticut agreed to provide the UMass Highway Sustainability Research Center with the following mixtures: 1. Control mixture produced with only virgin materials. 2. The same control mixture incorporating reclaimed asphalt pavement (RAP) at different binder replacement contents. These binder replacement contents will be higher than typically specified in the New England States. 3. The mixtures will incorporate RAP at different moisture contents. 4. Three different WMA will also be used to produce the above mixtures.

Anticipated work next quarter:

06-4, Hold Kick-Off Meeting. Start Literature Review. Start Internet Survey.

07-1, The research team will be developing a specific timeline for the FWD testing to be conducted on the two existing sites during the 2014 spring thaw period. The team will also work to finalize the selection of targeted test sites for installation of instrumentation during the 2014 construction season.

09-2, Continue the literature review, survey instrument development, preparation for the spring experiments as described in the proposal. Outline the precise species composition and order the seed mixture for spring plantings. Facilitate the discussions with the stakeholders to receive sufficient feedback about the project. Prepare the list of the survey recipients. Distribute the survey instrument to the recipients.

09-3, Completion of specifications. Determine list of bridge projects that can be included for demonstrations. Review of specifications and RFQs with vendors for listed projects. Vendor evaluation checklist to be developed.

10-3, Complete Literature Review. Determine Critical Information.

Significant Results:

None as of this reporting period.

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).

NETC 09-2 and 09-3 contracts were executed 6 weeks after the start date listed in the contract. This should not cause a significant delay in the project.

Potential Implementation:

The 5 research projects listed above are very new. Implementations of the results of those projects are not anticipated in the near future.