TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): WisDOT

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.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)* TPF-5(352)	**Transportation Pooled Fund Program - Report Period:** ☑ Quarter 1 (January 1 – March 31) ☐ Quarter 2 (April 1 – June 30) ☐ Quarter 3 (July 1 – September 30) ☐ Quarter 4 (October 1 – December 31)	
Project Title: Recycled Materials Resources Center- Fourth Generation (RMRC-4G)		
Name of Project Manager(s): Edil/Pakes	**Phone Number:** 608-890-4966	**E-Mail** tbedil@wisc.edu angela.pakes@wisc.
Lead Agency Project ID: 0092-17-15	**Other Project ID (i.e., contract #):** AAC2312 MSN207489	**Project Start Date:** 4/17/17
Original Project End Date: 4/17/2022	**Current Project End Date:** 11/30/2022	**Number of Extensions:** 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
$382,932	$338,683.10	88%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$5362.52 / 1%	$5362.52	88%

Project Description:

The goal of RMRC-4G is to provide the resources and activities needed to break down barriers and increase utilization of recycled materials and industrial byproducts. This is being done through carefully integrated and orchestrated activities that include applied research in key areas relevant to transportation applications combined with outreach programs that provide the educational and technical resources needed to maximize the rate at which recycled materials and industrial byproducts are used in transportation applications.

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

• Continued weekly internal RMRC research administration meetings. This included meetings on revised schedules for the MSE wall projects and a path forward.

• Added a three more research inquiries to growing list.

• Scheduled and prepped January Board meeting. Prepped for spring board meeting. Presented 3 project updates and 4 brief presentations on new uses for recycled materials in transportation infrastructure.

• Continued work in ASTM on proposed Standard E850 Characterization of Inorganic Process Wastes for Use as Structural Fill.

• UW hosting platform made major updates to website back end. Updates from PHP 7.4 (was previously 7.3), and test site is on 8.1.x in WordPress. Updating the content of test site and updating WordPress (as well as any other plugins).

• Contacted by an R&D company (Millenium SynthFuel) looking to test the use of Lime/Cement kiln dust for use as part of a mixture for CO2 capture solvents, primarily because of the calcium hydroxide content. They were looking for samples or sources to test samples of LKD/CKD for their tests. We connected the R&D company to LaFarge Cement Company who can provide CKD. LKD can be obtained from local lime company.

• Received inquiry regarding the potential health (cancer) effects of crushed asphalt fill near a personal residence. Responded the call and directed him to relevant sources.

Anticipated work next quarter:

Continue project meetings with all active project teams. Weekly internal RMRC research administration meetings.

Close monitor of MSE Wall project progression.

Project Closeout Presentation: Performance of Geotextiles Used Under RCA Base Course
Review final report for this project and share for review and comments by members.

Project Updates for spring meeting.
• MSE walls/full-scale Phase 2
• MSE: RCA-Geotextile Interaction ("Tufa")-Suitability of Using Recycled Concrete Aggregate (RCA) as a Backfill in • Mechanically Stabilized Earth Walls Reinforced with Geotextiles

Host RMRC Exec members meeting for spring 2022 for projects updates; review active projects.

AMS20 TRB Subcommittee summer meeting planning.

Continue identifying new topics and issues relating to recycling materials for highways applications for potential RMRC next generation.

Resume website updates that were put on hold while hosting platform was making updates.

Continue work with ASTM on new recycled materials standards.

Significant Results:

• Responded to research inquiries regarding the MSE wall projects.
• Responded to research ideas and collected information for future sharing.

• January Board meeting presentations:
Performance of Geotextiles Used Under RCA Base Course
MSE walls/full-scale Phase 2
MSE: RCA-Geotextile Interaction ("Tufa")-Suitability of Using Recycled Concrete Aggregate (RCA) as a Backfill in Mechanically Stabilized Earth Walls Reinforced with Geotextiles

• Further developments on proposed ASTM Standard E850 Characterization of Inorganic Process Wastes for Use as Structural Fill.

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 after last quarter adjustments to new schedules.

Potential Implementation:

Several opportunities via each of the individual projects.