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	$316,015	83%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$7631.30 / 1%	$7631.30	83%

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.):

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

• Compiled a list of Research inquiries that have been building the last couple years.

• Scheduled and prepped January Board meeting.

• WiscLEACH Program - we received an inquiry from Researcher, Linh Nguyen, from the Center for Equipment, Environment and Labor Safety, Vietnam Institute for Building Materials in Hanoi regarding the WiscLEACH Program. The program was developed by the RMRC and is a free downloadable modeling program, and the group is using WiscLEACH to simulate the diffusion of heavy metals of slag and fly ash into soil and groundwater. This was a followup from their call last April to use WiscLEACH. They have been analyzing the collected data by manual calculation method and built .xls charts which has not proved efficient, is prone to errors, difficult to control and difficult to approach the formula from manual calculation. Therefore, using the WiscLEACH software will help to simplify and optimize the calculation process and avoid those disadvantages of manual calculation method. We referered support questions for the nine modeules to the WiscLEACH developer Lin Li.

• RMRC member from Iowa DOT requested the RMRC to provide an impartial determination regarding some controversial environmental aspect of using processed plastics in unpaved road stabilization. We studied the issue and provided the review and a recommendation that was acknowledged.

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

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.

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

AMS20 TRB Subcommittee January meeting.

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.

• Prepped January Board meeting.

• Connected researchers needed groundwater trace information via the WiscLEACH Program.

• Provided an impartial determination regarding some controversial environmental aspect of using processed plastics in unpaved road stabilization for Iowa DOT.

• 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.