

## 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.*

<b>Transportation Pooled Fund Program Project #</b> <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i>  TPF-S(270)	<b>Transportation Pooled Fund Program - Report Period:</b> <input type="checkbox"/> Quarter 1 (January 1 – March 31) 2014 <input type="checkbox"/> Quarter 2 (April 1 – June 30) 2014 <input type="checkbox"/> Quarter 3 (July 1 – September 30) 2014 <input checked="" type="checkbox"/> Quarter 4 (October 1 – December 31) 2014	
<b>Project Title:</b> Recycled Materials Resources Center- Third Generation (RMRC-3G)		
<b>Name of Project Manager(s):</b> Angela Pakes Ahlman and Tuncer B. Edil	<b>Phone Number:</b> 608-890-4966	<b>E-Mail</b> apakes@sustainability.wisc.edu
<b>Lead Agency Project ID:</b> TPH-5(270)	<b>Other Project ID (i.e., contract #):</b>	<b>Project Start Date:</b> August 30, 2012
<b>Original Project End Date:</b> September 30, 2015	<b>Current Project End Date:</b> September 30, 2015	<b>Number of Extensions:</b> NA

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
\$42,097.00	\$29,623.46	70.4%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$1,725.32; 4%	\$1,725.32	70.4%

**Project Description:**

The goal of RMRC-3G 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.):**

Phone calls and emails were used as means to promote the RMRC-3G. The new webpage is reviewed and improved continually.

Pakes Ahlman attended the WAPA Conference in Madison to promote the RMRC and other WisDOT programs.

I-94 evaluations continued this quarter for the 1.9Km main line stretch. Collection of off ramp materials started.

All 3 research projects are now under contract and work has begun:

1. Development of Recycled Materials Informational Data Sheets and Quantification of System-wide Life Cycle Benefits (UW-Madison-PIs: Edil and Pakes Ahlman)
  - Data collection for recycled materials quantities in 6 member states. IN and WI almost complete. GA, MN, VDOT and PennDot ongoing. The team held weekly meetings.
2. Development of a Recycled Materials Web Map to Connect Consumers and Producers (U. of Alabama-PI Graetinger)
  - The team has evaluated similar existing material exchange web portals and reviewed literature that discusses beneficial use of industrial by-products.
  - Establish requirements list: Team has begun establishing the web site requirements list. Once the Research Advisory group is formed, interviews will be held to confirm the list of web site priorities and use cases.
3. Use of Recycled Materials as Mechanically Stabilized Earth (MSE) Retaining Wall Reinforced Backfills (UW-Madison with subcontract to George Mason University-PIs: Likos and Tanyu)
  - Literature search began along with scoping of project details.
  - Recycled materials as MSE backfill – reviewed and evaluated types, quantities, opportunities and constraints.

**Anticipated work next quarter:**

- Continue with “**Development of Recycled Materials Informational Data Sheets and Quantification of System Life Cycle Benefits**” and complete data collection from all member states. Review the benefit analysis methodology.
- Continue with I-94 evaluation at off ramps.
- Potential evaluation of I-39 future rework.
- TRB meeting preparation with Executive Board members.
- Submeetings will be held with the research advisory group for each RMRC project.

**Significant Results:**

- Continued outreach activities for active members, future potential members and industry.
- Contracted the selected research project and routed for comment. **None received.**
- Held weekly meetings to discuss progress.
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**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:**

The three research projects will have significant implementation potential.