***‘Performance of Recycled Asphalt Shingles (RAS) in Hot Mix Asphalt’***

**National Pooled Fund Study TPF-5(213)**

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During the eleventh quarter, April 1, 2012 through June 30, 2012, the TPF-5(213) team achieved the following components on the project:

1. ISU completed testing of dynamic modulus samples for Illinois, Colorado and Wisconsin.
2. ISU completed beam fatigue laboratory testing for Illinois, Colorado and Wisconsin mixes.
3. MnDOT completed the binder extractions Illinois, Colorado and Wisconsin mixes.
4. MnDOT completed DSR testing on Illinois, Colorado and Wisconsin recovered binders.
5. Recovered binders and aggregates were delivered to ISU for testing.
6. Updates completed on the TPF-5(213) website.
7. Next steps for the study include:
8. Completion of Minnesota University Semi-circular bend testing for all state demonstration projects;
9. Completion of ISU laboratory PG binder testing for Illinois, Colorado and Wisconsin recovered binders;
10. Completion of ISU laboratory testing of aggregate gradations for Illinois, Colorado and Wisconsin materials;
11. Updates to the TPF-5(213) website;
12. Completion and Delivery of HMA-BBR samples to Missouri DOT; and
13. Completion of the Draft executive summaries for Iowa, Indiana, Minnesota, and Missouri state demonstration projects for the final report.