

# RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: 1st

Wisconsin Department of Transportation  
DT1241 2009

<b>Research, Development and Technology Transfer</b>	
<b>Program:</b> (Choose One)	
<input type="checkbox"/> <b>Policy Research</b>	<input type="checkbox"/> <b>Pooled Fund TPF #</b>
<input checked="" type="checkbox"/> <b>Wisconsin Highway Research Program</b>	<input type="checkbox"/> <b>Other</b>
<b>Project Title:</b> Wisconsin Mixture Characterization Using the SPT on Historical Aggregate Structures	
<b>Administrative Contact/Phone #:</b> Peg Lafky/(608)266-3663	<b>WisDOT Project ID(s):</b> 0092-08-06
<b>WisDOT Technical Contact/Phone #:</b> Judy Ryan / 608 246-5456	<b>Other Project ID:</b>
<b>Project Investigator/Phone # (agency &amp; contact):</b> Ramon Bonaquist Advanced Asphalt Technologies, LLC / 703-444-4200	<b>Approved Starting Date:</b> 2/13/2008
<b>WisDOT Comments:</b>	<b>Original End Date:</b> 5/13/2009
	<b>Current End Date:</b> 5/13/2009
<b>Sponsor:</b> Wisconsin Department of Transportation	<b>Number of Extensions:</b> 0

**Schedule Status:**

- On schedule                       Ahead of schedule  
 On revised schedule             Behind schedule (Please explain below)

Total Project Budget	Expenditures Current Quarter	Total Expenditures	% Funds Expended	% Work Completed
89,992.00	\$10,277.10	\$53,474.64	59.4%	80%

**Project Description:**

The objectives of the proposed research are to collect simple performance test properties on mixtures currently used by the Wisconsin Department of Transportation and to compare these properties to the observed performance of pavements built with similar mixtures. The project and the resulting database of simple performance test properties and observed performance will serve several purposes including:

- Provide typical simple performance test properties for mixtures used by the Wisconsin Department of Transportation classified by design traffic level, position in the pavement structure, and aggregate geology.
- Initial comparisons of simple performance test properties and pavement performance for selected Wisconsin projects.
- Local validation of criteria for rutting resistance developed in major national research efforts.
- Input data for evaluation and initial use of the MEPDG.
- Training of Wisconsin Department of Transportation staff in the use of the Simple Performance Test System for pavement and HMA design and evaluation.

**Progress This Quarter:** (Includes project committee meetings, work plan status, contract status, significant progress, etc.)

Confined flow number testing was completed on the Christian/Gade, Glenmore, and Wimmie sources. Analysis of the dynamic modulus and flow number data was also completed. Work was initiated on the draft report. The report is approximately 80 percent complete.

**Anticipated Work Next Quarter:**

The draft report will be completed in early April and submitted to the Wisconsin Department of Transportation.

**Circumstances Affecting Progress and/or Budget:**

The project remains approximately 3 months behind schedule. The project report will be completed and delivered in early April. Training of the Wisconsin Department of Transportation staff and other implementation activities have been

delayed pending delivery of the SPT. A no cost time extension will be required to provide sufficient time for review and revision of the project report and for the training and implementation activities. The required duration for the extension depends on the delivery of the SPT.

Gantt Chart:

Task/Activity	2008											2009				
	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	
<b>Task 1: Select Mixtures and Assemble Performance Data</b>	C	C														
<b>Task 2: Prepare Test Specimens</b>			C	C	C	C	C	C								
<b>Task 3: Perform Simple Performance Tests</b>				P	P	P	P	C	C	C	C					
<b>Task 4: Compare Simple Performance Test Properties and Performance</b>								P	P			C	C			
<b>Task 5: Compile Final Report</b>									P	P		C	C			
<b>Implementation Planning</b>												P	P			
<b>Implementation Activities</b>													P	P	P	
<i>Quarterly Reports</i>	C			C			C			C			C		P	
<i>Draft Final Report</i>										P			P			
<i>Revised Final Report</i>															P	