

## Transportation Pooled Fund Program

<b>Project Title: “Improving the Quality of Pavement Profiler Measurement”</b>		
<b>Project Manager and Phone Number:</b>  <b>Robert L. Orthmeyer, P.E.</b> <b>(708) 283-3533</b> <b>robert.orthmeyer@fhwa.dot.gov</b>	<b>Project No:</b>  <b>TPF 5(063)</b>	<b>Project is:</b>  <input type="checkbox"/> PLANNING <input checked="" type="checkbox"/> R&D
<b>Reporting Period:</b>  April 1 through June 30, 2006	<b>Multi Year Project</b>  Four Year	
<b>Description of Work Performed and Progress:</b>  The following list of priorities is adjusted for priority one: <ol style="list-style-type: none"> <li>1. Reference Profile Device (development of) – RFP’s under development.             <ol style="list-style-type: none"> <li>a.) Golden Footprint</li> </ol> </li> <li>2. Critical Profile Accuracy Requirements (definition) - Completed</li> <li>3. Construction Acceptance and Correction Software (acquisition of existing) - Ongoing</li> <li>4. Certification / Validation Sites – On Hold for completion of Priority One.</li> <li>5. Evaluating Upper Limits of Single Accelerometer and Single Height Sensor – Contractor is on board awaiting Task Order priority.</li> <li>6. Emerging Technology That Enhances Profile Measurement - Ongoing</li> <li>7. Portable Validation Device Feasibility – On Hold.</li> <li>8. Lightweight Profilers Unique Problems – Ongoing.</li> <li>9. Portable Validation Device Implementation. On Hold.</li> </ol> <p><b>Priority One – Reference Device(s):</b> At the Columbus meeting, the TAC decided to pursue two separate proposals to accomplish this priority. The first would be for a contractor to provide necessary bench mark testing. The second RFP would be soliciting the actual reference device manufacturers. It was agreed that we were not seeking one device, but would look at providing funding to assist with the development of several devices. The RFP’s are being fine tuned by the contracting officer and the contracting officer’s technical representative.</p> <p><b>Priority Two:</b> Completed. The “Defining of Critical Profile Accuracy Requirements” final report was delivered to the FHWA. The project was conducted by Steve Karamihas from the University of Michigan Transportation Research Institute (UMTRI). A copy of the final draft is available that the pooled fund web site: <a href="http://www.pooledfund.org/projectdetails.asp?id=280&amp;status=4">http://www.pooledfund.org/projectdetails.asp?id=280&amp;status=4</a>.</p> <p><b>Priority Three:</b> The latest version (2.60.0017) of ProVAL is available for download free of charge at the website: <a href="http://www.roadprofile.com">www.roadprofile.com</a>. ProVAL 2.7 Task Order was finally approved by the contracting office, but due to delays in processing the original contract will be modified to allow time to complete the Task Order for version 2.7. The contract has been modified to complete the option year on August 31, 2006. Anticipated delivery date for version 2.7 is August 31, 2006. BETA evaluations will be needed in July and August.</p> <p><b>Priority Five - Evaluating Upper Limits of Single Accelerometer and Single Height Sensor:</b> The contracting office is negotiating with an existing contractor at the FHWA Turner-Fairbank Highway Research Center in McLean, VA. Since this is a Small Business Set-Aside and the existing FHWA</p>		

contractor qualifies as a small business, they will be completing this Task Order.

**Funding** - There is currently \$1,100,600.00 of obligated funds from the participating STD's in the pooled fund study account. Of this \$102,025 was awarded to UMTRI for Priority Two. Priority three has \$147,239 set aside for funding from the pooled fund study. (Funding from the FHWA HIPT is being used to allow the acquisition of the Bumpfinder software and ProVAL support to proceed.) A total of \$1.43 Million has been committed to the project over the four year time frame from the participating SHA's. When combined with FHWA funding, a total of \$2,007,700 has been committed to this pooled fund study.

**Participating State Highway Departments:** California, Colorado, Connecticut, Florida, Georgia, Illinois, Kansas, Kentucky, Maryland, Mississippi, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, South Dakota, Texas and Wisconsin. Also assisting FHWA Federal Lands, FHWA LTPP, and FHWA Office of Pavement Technology (HIPT).

**Note:** A web site has been developed to manage all of the pooled fund study proposals, solicitations and projects. The TPF-5(063) Profile Quality study can be found at:  
<http://www.pooledfund.org/projectdetails.asp?id=280&status=4>.

**NEXT MEETING:** The next meeting will be held September 19<sup>th</sup> & 20<sup>th</sup> prior to RPUG in Des Moines, IA. A web conference will be scheduled during the next quarter to initiate Priority Five.

#### STATUS AND COMPLETION DATE

Percentage of work completed to date for total project

Project is: 50 %

       on schedule   X   behind schedule, explain:

Request for Proposals for Priority One Bench Mark Testing are anticipated to be announced during the fourth quarter of FHWA FY2006. There was a minor glitch in the accounting program that monitors the funds for this pilot project. For a short duration of time, the study was unable to obligate funds that had been committed to the program.

Expected Completion Date: September 30, 2007

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**Project Manager**