



OREGON DEPARTMENT OF TRANSPORTATION

Research Unit
200 Hawthorne, Ste., B-240
Salem, OR 97301

SPR Quarterly Progress Report
October 1, 2008 through December 31, 2008

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Date January 5, 2009

TO: Technical Advisory Committee Members:

Cole Mullis, Oregon Department of Transportation
Larry Ilg, Oregon Department of Transportation
Elizabeth Hunt, Oregon Department of Transportation
Norris Shippen, Oregon Department of Transportation
Anthony Boesen, Federal Highway Administration
Michael Remily, Oregon Department of Transportation
Gary Thompson, Asphalt Pavement Association of Oregon

FROM: Norris Shippen, Research Coordinator (ph: (503) 986-3538)

1. Project

Density Verification for Hot Mixed Asphalt Concrete Pavement
SPR # 666

2. Key Dates

Start Date for ODOT: October 1, 2007
Completion Date for ODOT: December 31, 2008

3. Principal Investigator

Todd V. Scholz, Ph.D., P.E.
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4. Progress (Oct-Dec 2008)

- Completed all the remaining CoreLok tests and SSD tests on the remaining lifts of OR18 (lifts 2 and 3) and of joint and individual cores (or un-separated and separated cores).
- APAO tested the cores so that an inter-laboratory comparison could be made.

- Completed Rice gravity tests for most of the lifts of OR 18 and OR 140 (a total of 7 out of 12 sample boxes completed).
- Completed summarizing and verifying Rice Gravity Data for completed tests.
- Performed Statistical analysis with all the BSG data to answer research questions asked by ODOT.

5. Problems

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6. Work Planned for Next Quarter (Jan-Mar 2009)

- Complete Rice gravity tests for all the remaining lifts of OR 18 and OR 140 (the remaining 5 out of 12 sample boxes completed).
- Complete summarizing and verifying Rice Gravity Data for all completed tests (all 12 samples or boxes).
- Complete statistical analysis of OSU Rice gravity data vs. contractor Rice gravity data.
- Received BSG data on the lifts of cores tested by APAO. Completed statistical analysis of OSU vs. APAO BSG results.
- Conduct AASHTO T166 Method C testing on the cores.
- Initiate development of the final report.

7. Finances

SPR Project Summary

VENDOR	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 55,000	\$ 85,000			\$ 140,000
REVISED BUDGET	\$ 29,569	\$ 90,431			\$ 120,000
EXPENDITURES - VENDOR	\$ 29,569	\$ 46,083	\$ -	\$ -	\$ 75,652
BALANCE	\$ -	\$ 44,348	\$ -	\$ -	\$ 44,348

ODOT	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 4,000	\$ 5,000			\$ 9,000
REVISED BUDGET	\$ 3,148	\$ 5,000			\$ 8,148
EXPENDITURES - ODOT	\$ 3,148	\$ 3,927	\$ -	\$ -	\$ 7,075
BALANCE	\$ -	\$ 1,073	\$ -	\$ -	\$ 1,073

PROJECT	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 59,000	\$ 90,000	\$ -	\$ -	\$ 149,000
REVISED BUDGET	\$ 32,717	\$ 95,431	\$ -	\$ -	\$ 128,148
EXPENDITURES - PROJECT	\$ 32,717	\$ 50,010	\$ -		\$ 82,727
BALANCE	\$ -	\$ 45,421	\$ -	\$ -	\$ 45,421