



OREGON DEPARTMENT OF TRANSPORTATION

Research Unit
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Salem, OR 97301

SPR Quarterly Progress Report
January 1, 2009 through March 31, 2009

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Date April 2, 2009

TO: Technical Advisory Committee Members:

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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

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4. Progress

- Completed Rice gravity tests for all the remaining lifts of OR 18 and OR 140 (the remaining 5 out of 12 sample boxes completed).
- Completed summarizing and verifying Rice gravity data for all completed tests (all 12 samples or boxes).
- Completed statistical analysis of OSU Rice gravity data vs. contractor or ODOT Rice gravity data.
- Completed statistical analysis of OSU vs. APAO bulk specific gravity (BSG) results.

- Received BSG data on the lifts of cores tested by APAO.
- Re-ran AASHTO T 166 Method A (SSD BSG) tests on cores sent to APAO because there was a significant difference in weight due to possible loss of material.
- Further useful knowledge was obtained by comparing old SSD BSG data to new SSD BSG data and to APAO's SSD BSG data.
- Completed AASHTO T 166 Method C testing on 90 cores.
- Completed statistical analysis of AASHTO Method A vs. Method C (the new OSU data) and other methods.
- In the process of getting the final project document completed.

5. Problems

- AASHTO T 166 Method C was difficult and time consuming because breaking the material lead to scattering and loss of material which questions the validity of the data.

6. Work Planned for Next Quarter (Apr-Jun 2009)

- Test the blocks.
- Complete and submit the project report

7. Finances

SPR Project Summary

VENDOR	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 62,000	\$ 62,000			#####
REVISED BUDGET	\$ -	\$ 48,000	\$ 74,705		#####
EXPENDITURES - VENDOR	\$ -	\$ 32,354	\$ -	\$ -	\$ 32,354
BALANCE	\$ -	\$ 15,646	\$ 74,705	\$ -	\$ 90,351

ODOT	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 2,500	\$ 2,500			\$ 5,000
REVISED BUDGET	\$ 2,920	\$ 2,000	\$ 2,000		\$ 6,920
EXPENDITURES - ODOT	\$ 2,920	\$ 1,386	\$ -	\$ -	\$ 4,306
BALANCE	\$ -	\$ 614	\$ 2,000	\$ -	\$ 2,614

PROJECT	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 64,500	\$ 64,500	\$ -	\$ -	#####
REVISED BUDGET	\$ 2,920	\$ 50,000	\$ 76,705	\$ -	#####
EXPENDITURES - PROJECT	\$ 2,920	\$ 33,740	\$ -		\$ 36,660
BALANCE	\$ -	\$ 16,260	\$ 76,705	\$ -	\$ 92,965