



SPR Quarterly Progress Report
April 1, 2008 through June 30, 2008

Date June 26, 2008

TO: Technical Advisory Committee Members:

John Svadlenak, ODOT Transportation Economist
Cole Mullis, ODOT Quality Assurance Engineer
Mark Winn, ODOT QCCS
Jeff Graham, FHWA Representative

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

1. Project

Statistical Analysis of QC/QA Data on Construction Projects
SPR 650

2. Key Dates

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

3. Principal Investigator

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4. Progress

- Initial literature search completed
- Established contacts with ODOT personnel for site visits and interviews
- Revised, expanded literature search completed
- TAC meeting held, decision made to concentrate on modeling the QA/QC processes for key materials, using interview and ODOT process manuals, rather than conducting site visits
- Problems in literature review corrected.

- New PhD student assigned to project.
- *TAC meeting held to discuss strategy for moving the work forward. Results include increased focus on establishment of limits for application of statistical process of quality assurance. Further, additional work in suggestions of software for QA analysis would be helpful.*
- *Investigation into establishment of margin of error computations for statistical tests is underway*
- *Preliminary survey of other DOT practices has been developed, but is on hold pending outcome of results of margin of error computations.*

5. **Problems**

- None

6. **Work Planned for Next Quarter**

- Completion of recommendations of mathematical limits for testing practices

7. **Finances**

SPR Project Summary:

VENDOR	FY'07	FY'08	FY'09	FY'10	TOTALS
ORIGINAL BUDGET					\$ -
REVISED BUDGET	\$ -	\$ 39,000	\$ 69,000		\$ 108,000
EXPENDITURES - VENDOR	\$ -	\$ 8,166	\$ -	\$ -	\$ 8,166
BALANCE	\$ -	\$ 30,834	\$ 69,000	\$ -	\$ 99,834

ODOT	FY'07	FY'08	FY'09	FY'10	TOTALS
ORIGINAL BUDGET	\$ 45,000	\$ 83,000			\$ 128,000
REVISED BUDGET	\$ 2,006	\$ 6,500	\$ 3,000		\$ 11,506
EXPENDITURES - ODOT	\$ 2,006	\$ 6,274	\$ -	\$ -	\$ 8,280
BALANCE	\$ -	\$ 226	\$ 3,000	\$ -	\$ 3,226

PROJECT	FY'07	FY'08	FY'09	FY'10	TOTALS
ORIGINAL BUDGET	\$ 45,000	\$ 83,000	\$ -	\$ -	\$ 128,000
REVISED BUDGET	\$ 2,006	\$ 45,500	\$ 72,000	\$ -	\$ 119,506
EXPENDITURES - PROJECT	\$ 2,006	\$ 14,440	\$ -		\$ 16,446
BALANCE	\$ -	\$ 31,060	\$ 72,000	\$ -	\$ 103,060