CAIT

Center for Advanced Infrastructure & Transportation
Rutgers, The State University of New Jersey

QUARTERLY PROGRESS REPORT

Project Title:	The Development of a Performance Specification for Granular Base and Subbase Material
RFP NUMBER:	NJDOT RESEARCH PROJECT MANAGER: Mr. Anthony Chmiel
TASK ORDER NUMBER/Study Number: Task Order No. 83 / 4-23914	PRINCIPAL INVESTIGATOR: Dr. Ali Maher
Study Start Date: 03/01/2000 Study End Date: 08/31/2003	Period Covered: 3rd Quarter 2003

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
Literature Search	5%	0%	100%	5%
1. Material Collection	5%	0%	100%	5%
2. Laboratory Testing	60%	10%	95%	57%
3. Calibration	10%	25%	90%	9%
4. Reporting	20%	40%	70%	14%
Final Report				
TOTAL	100%			90%

1. Progress this quarter by task:
   A. Permanent deformation testing was completed and resilient modulus testing began. The resilient modulus testing should finish soon, along with the submission of the final report. The permanent deformation testing showed to be heavily dependent on the material gradation. The gradation which provided the greatest resistance to permanent deformation was the middle of the gradation range. This was most likely due to the particles having the greatest compaction and "tightest" fit. In general, the material gradation that obtained the largest permanent deformation was the extreme coarse side. This can again be explained by how the particles are arranged. In the high end gradation (coarsest), the aggregate particles are extremely coarse and not well compacted. Therefore, the sample's overall structure is not as sound as the middle range.
   B. All of the CBR testing was completed. The CBR testing was also conducted on the RAP and RCA mix, at varying percentages. In general, with any of the materials tested, as the percent of RAP increased, the CBR value decreased. The opposite occurred with the RCA. As the percent of RCA increased, so did the CBR value. However, the RCA also had the lowest permeability values.

2. Proposed activities for next quarter by task:
   A. Resilient modulus testing should be completed very soon and the final report will be generated.

3. List of deliverables provided in this quarter by task (product date)
   N.A.

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4. Progress on Implementation and Training Activities
N.A.

5. Problems/Proposed Solutions
N.A.

6. Budget Summary*

Total Project Budget(# of years)	2 Years	$286,041.00
Total Project Expenditure to date		$283,443
% of Total Project Budget Expended		99%
Task Order Number/Study Number:		83 / 4-23914
Current Task Order Budget (# of years)	Year 1 and 2	$286,041.00
Actual Expenditure to date against current task order		$283,443
% of current task order budget expended		99%

* These are approximate expended amounts for the project; these estimates are for reference only and should not be used for official accounting purposes. For a more accurate project accounting please review the quarterly invoice for this project.

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