



QUARTERLY PROGRESS REPORT

Project Title:	A Proposal for the Development of High Performances Concrete for Transportation Structures in New Jersey		
RFP NUMBER: N/A	NJDOT RESEARCH PROJECT MANAGER: Tony Chmiel		
TASK ORDER NUMBER/Study Number: 62 / 4-23806	PRINCIPAL INVESTIGATOR: Hani Nassif		
Study Start Date: 05/10/1999 Study End Date: 01/01/2003	Period Covered: 3 rd Quarter 2001		

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
Collection and Synthesis of Data	5%	0%	100%	5%
Selection of Mix Proportions and Test Methods	30%	0%	100%	30%
Evaluation of Mechanical and Long-term Properties	25%	3%	100%	25%
Collection of Data and Preparation of Samples During the Field Samples	15%	5%	50%	7.5%
Evaluation of Field Samples	15%	10%	10%	1.5%
Preparation of Specifications for HPC	5%	10%	60%	3%
Final Report	5%	10%	60%	3%
TOTAL	100%			75%

1. Progress this quarter by task:

- A. Low strength concrete mix design.
- B. Concrete containing fly ash only.
- C. Concrete containing silica fume only.
- D. Rapid chloride permeability test setup.
- E. Two Creep rigs were designed and built as demos and manufacturing procedure for each rig has been established.
- F. Sensors for creep samples are configured and ordered.
- G. Performed tests on the Elastic of modulus of concrete.

2. Proposed activities for next quarter by task

- A. Creep/Environmental chamber upgrade.
- B. Freeze and Thaw machine repairs
- C. Field/Plant mixing.
- D. Concrete with aggregates from different sources.
- E. Concrete with different size aggregates.
- F. Freezing and thawing tests
- G. Creep and shrinkage tests
- H. Scaling resistance tests.

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

N/A



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

4. Progress on Implementation and Training Activities

N/A

5. Problems/Proposed Solutions

N/A

6. Budget Summary*

Total Project Budget (# of years)	1.5 Years	\$384,320.00
Total Project Expenditure to date		\$107,142
% of Total Project Budget Expended		28%
Task Order Number/Study Number:		62 / 4-23806
Current Task Order Budget (# of years)	Year 1.5	\$384,320.00
Actual Expenditure to date against current task order		\$107,142
% of current task order budget expended		28%

* 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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