



CAIT

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

QUARTERLY PROGRESS REPORT

Project Title:	Development and Evaluation of Geotechnical Design Parameters Using the Seismic Piezocone		
RFP NUMBER:	NJDOT RESEARCH PROJECT MANAGER: Mr. Robert Baker		
TASK ORDER NUMBER/Study Number: 88-04 / 4-23932	PRINCIPAL INVESTIGATOR: Dr. Ali Maher		
Period Starting: 6/1/2000 - 5/31/2001 (Start-End Date of Study)	Period Ending: 6/30/2001		

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
Literature Search	10%	100%	100%	10%
1. Field Testing	40%	10%	95%	38%
2. Laboratory Testing	20%	20%	95%	19%
3. Calibration	10%	40%	70%	7%
4. Reporting	20%	10%	10%	2%
Final Report				
TOTAL	100%			76%

1. Progress this quarter by task:

- A. Completed field investigation of seismic CPT results with conventional seismic crosshole testing. Looked at current shear wave correlations (based on CPT tip resistance and effective overburden pressure) with actual seismic downhole testing. Started organizing data for draft final report.

2. Proposed activities for next quarter by task:

- A. Completed data organization and begin writing draft copy of final report.

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

N.A.

4. Progress on Implementation and Training Activities

N.A.

5. Problems/Proposed Solutions

- A. Would like to look at extending the project for another year and purchase another in-situ testing device called the dilatometer. This device would be tested at identical locations as the CPT and cross-correlations would then be developed. The dilatometer is an excellent testing device that provides soil characterization data not unlike the CPT, and for some soil parameters, even better.
- B. The project would extend for one more year with a final report encompassing the use of the two most popular in-situ testing devices currently used in engineering practice. The budget would be identical to the current CPT project budget, except the equipment cost would increase.

Department of Civil and Environmental Engineering
623 Bowser Rd. Piscataway NJ 08854-8014
Tel : 732-445-0579 Fax: 732-445-0577



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6. Budget Summary*

Total Project Budget(# of years)	1 Year	\$30,000.00
Total Project Expenditure to date		\$22,271
% of Total Project Budget Expended		74%
Task Order Number/Study Number:		88-04 / 4-23932
Current Task Order Budget (# of years)	Year 1	\$30,000.00
Actual Expenditure to date against current task order		\$22,271
% of current task order budget expended		74%

* 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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