Civil Materials – PCC Lab Report Rubric – Spring 2008

DATE: _____ **SCORE:** _____/100

GROUP: _____

INTRODUCTION/CONCLUSION

Lab objectives are clearly stated.	0 1 2 3 4
Experiment is summarized.	0 1 2 3 4
Success of experiment is discussed.	0 1 2

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BACKGROUND

Engineering concepts are described in relation to the materials.	0 2 4 6 8
Applicable equations and figures are included.	0 1 2

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MATERIALS AND METHODS

Materials are clearly listed.	0 1 2
Concrete mix procedure is clearly outlined.	0 1 2 3
Curing of specimens is discussed.	0 1 2
Testing procedures are clearly outlined.	0 1 2 3

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DATA/DATA ANALYSIS

Data is included in an appropriate, efficient manner.	0 1 2
Appropriate formulae are used.	0 1 2 3
Appropriate and reasonable values are calculated.	0 1 2
Applicable figures and graphs are included.	0 1 2 3
Compressive strength at 7 and 28 days are quantitatively compared.	0 1 2 3
28 day compressive strength and tensile strength are quantitatively compared.	0 1 2 3
Correct significant figures and units are used.	0 1 2
Table of results is presented at end of section.	0 1 2

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DISCUSSION

Mixing process is discussed	0 1 2 3
Initial tests are discussed in relation to mix design.	0 2 4 6
Mechanical properties are discussed and correlated to initial mix properties.	0 2 4 6
Presents/discusses gain of strength and stiffness with age.	0 2 4 6
Compares and discusses tensile versus compressive strength.	0 2 4 6
Discusses failure modes.	0 1 2 3 4 5
Discusses sources of error.	0 1 2 3
Discusses what was learned and what could be improved.	0 1 2 3 4 5

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GENERAL

Paper is free of spelling or grammatical errors.	0 1 2 3 4 5
Paper follows appropriate format.	0 1 2 3 4 5

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COMMENTS: