



**CCRL**  
Cement and Concrete  
Reference Laboratory

[www.ccrl.us](http://www.ccrl.us)

June 10, 2011

**To: Participants in the CCRL Concrete Proficiency Sample Program**

**SUBJECT: Preliminary Report for Concrete Proficiency Samples No. 159 and No. 160**

This preliminary report is for the pair of CCRL Concrete Proficiency Samples that were distributed February 2011.

This information is being made available, prior to the distribution of the final report, in order that participating laboratories will have current information with which to evaluate the reliability of their testing techniques. This report is for information only and in some cases the information may vary significantly from the final report.

Notification by email will be sent when the final report is available at our website.

Sincerely,

Robin K. Haupt  
Supervisor, Proficiency Sample Program  
Cement and Concrete Reference Laboratory

CCRL PROFICIENCY SAMPLE PROGRAM  
Concrete Proficiency Samples No. 159 and No. 160  
Preliminary Report  
June 10, 2011

SUMMARY OF RESULTS

		Sample No. 159				Sample No. 160		
Test	#Labs	Average	S.D.	C.V.		Average	S.D.	C.V.
Air Cont, Volume	%	42	2.4	0.41	17	2.1	0.38	18
Air Cont, Pressure	%	49	2.35	0.39	17	2.04	0.34	17
Slump	inches	50	2.22	0.96	43	3.25	1.22	38
Unit Weight	lbs/ft <sup>3</sup>	49	147.4	1.2	0.83	147.6	1.1	0.72
<b>Compressive Strength, 7 day, 6 x 12 inch specimens</b>								
Comp Strength	psi	20	4812	378	7.9	4372	254	5.8
<b>Compressive Strength, 7 day, 4 x 8 inch specimens</b>								
Comp Strength	psi	29	5451	456	8.4	4866	403	8.3
Temperature of Conc	°F	50	75	6.4	8.6	75	6.3	8.3

CCRL PROFICIENCY SAMPLE PROGRAM  
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SUMMARY OF RESULTS

			Sample No. 159			Sample No. 160		
Test		#Labs	Average	S.D.	C.V.	Average	S.D.	C.V.
Air Cont, Volume	%	42	2.38	0.41	17	2.07	0.38	18
Air Cont, Pressure	%	49	2.3	0.39	17	2.0	0.34	17
Slump	inches	50	2.22	0.96	43	3.25	1.22	38
Unit Weight	lbs/ft <sup>3</sup>	49	147.4	1.2	0.83	147.6	1.1	0.72
<b>Compressive Strength, 7 day, 6 x 12 inch specimens</b>								
Comp Strength	psi	20	4812	378	7.9	4372	254	5.8
<b>Compressive Strength, 7 day, 4 x 8 inch specimens</b>								
Comp Strength	psi	29	5451	456	8.4	4866	403	8.3
Temperature of Conc	°F	50	75	6.4	8.6	75	6.3	8.3