



An Association of Engineering Laboratories,
Inspection Agencies and Building Officials

TO: WACEL Members and other interested parties
SUBJECT: 2018 ROUND ROBIN TESTING PROGRAM
INCLUDING THE AGGREGATE PROGRAM
DATE: April 30, 2018

WACEL and the Ready Mixed Concrete Producers Technical Committee once again are sponsoring a round robin cylinder testing program for concrete facilities in the Washington, DC metropolitan area. **ALL WACEL ACCREDITED OR SOON TO BE ACCREDITED CONCRETE LABORATORIES NOTE: YOU MUST PARTICIPATE IN A REFERENCE SAMPLE PROGRAM AS A CONDITION OF YOUR WACEL CONCRETE ACCREDITATION.**

Again this year, in addition to the concrete cylinder testing, WACEL is offering **COARSE AGGREGATE AND FINE AGGREGATE SAMPLES TO BE TESTED IN ACCORDANCE WITH ASTM C127 AND C128.** A separate report will be issued with the concrete cylinder testing report. All laboratories testing aggregates, in addition to concrete, are **REQUIRED** to participate in a reference sample program including these tests to be in compliance with ASTM C1077, and thus the WACEL Accreditation Program.

PURPOSE

The program results can provide area laboratories with an idea of the variability of standard concrete cylinder tests and offers an opportunity for testing facilities to audit their testing procedures by comparing results with their peers. To participate, you must agree to employ procedures regularly used in your facility for curing and capping cylinders. You will report these procedures on the data sheet that will be furnished to you after you have returned the attached participation form. The applicable standard test methods for capping cylinders are ASTM C617 and C1231 (unbonded pad caps), and for testing cylinders is ASTM C39.

Much like the concrete cylinder testing program, the aggregate program results can provide area laboratories with an idea of the variability of standard aggregate tests and offers an opportunity for testing facilities to audit their testing procedures by comparing results with their peers. Tests should be performed in accordance with ASTM C127 and C128, and the test results should be reported on the data sheet that will be furnished to you after you have returned the attached participation form.

DETAILS

Participants will be assigned a number. This number will identify the facility in the final report to ensure confidentiality. The program will be similar to the program run last year. **Only 4" by 8" cylinders will be tested.** A low-strength (4000 psi) and a mid-strength (7000 psi) mix will be prepared in sets of three 4" by 8" cylinders. Vulcan Materials will furnish all concrete. **We need volunteers to help make cylinders Wednesday, May 16, 2018. Please indicate if you can provide a volunteer on the participation form.**



All cylinders will be molded at Vulcan Materials in Springfield, VA. Directions are as follows: From the Beltway in VA, take I 395 North towards Washington, exit on Edsall Road West. Turn left at the second traffic light. The lab is on the right. Call 703-658-3256 for direction. Each participant is expected to pick up **2 sets of 3 cylinders** from this location within 24+8 hours after they are molded. Vulcan Materials **will not** be responsible for stripping and curing cylinders that are picked up late. The cylinders will be transported, stripped, cured, and tested for 28-day strength by each participant. Deadlines are:

**Cylinder pick up:
28 day test:**

**Thursday, May 17, 2018 from 6:30am-3:00pm
Wednesday, June 13, 2018**

The aggregate samples will be prepared in advance by WACEL and made available at Vulcan Materials when participants come to pick up the concrete cylinders. Each aggregate participant will be given one bag of fine and one bag of coarse aggregate. The tests should be performed in accordance with C127 and C128 and data sheets must be returned with the concrete data sheets.

There is no cost to participate. The identity of each participant is confidential. Complete and return the attached form if you want to participate.

Respectfully,
WACEL, Inc.



Michael R. Dean, CWI, MSI, CQA
Director, Technical Services



**WACEL RMC-PTC
2018 ROUND ROBIN TESTING PROGRAM
PARTICIPATION FORM**

Company: _____

Address: _____

_____ ZIP _____

Telephone: _____

FAX: _____ E-mail: _____

Contact Person: _____

_____ Yes we will provide a volunteer on Wednesday, May 16, 2018 to help make cylinders

_____ Yes we plan to participate in the concrete reference sample program

_____ Yes we are going to participate in the aggregate reference sample program

Name of Volunteer: _____

Number of facilities participating: _____

Complete and return this form by May 11, 2018 (preferably before) to:

WACEL
7508 Wisconsin Avenue, 4th Floor
Bethesda, MD 20814
301-652-7925
301-907-9326 (FAX)
mike@wacel.org (e-mail)

