

Laboratory Assessment Preparation List

General Assessment Guidance: This document is intended to provide guidance for laboratories preparing for an AMRL On-Site Laboratory Assessment, specifically with regard to the preparation and availability of materials required for demonstration of the test method(s). Preparing for the assessment will improve the efficiency, productivity, and benefit of the assessment for the laboratory.

This document does not address all of the apparatus and procedural requirements which may be evaluated during the assessment. Please consult the applicable AASHTO or ASTM standard for specific requirements. The laboratory may elect to demonstrate the AASHTO, ASTM or both versions of the test method. The laboratory should be prepared to present required apparatus and to perform the test method in its entirety. Please contact AMRL at (240) 436-4900 if your laboratory has additional questions with regard to preparing for the On-Site Assessment.

<u>AASHTO</u>	<u>ASTM</u>	Aggregate Assessment Preparation
T11	C117	Have a dry aggregate sample ready to be washed in accordance with the test method. Prepare to demonstrate sample preparation, washing procedures, and complete all calculations.
T19	C29	Have a dry aggregate sample ready to be tested. Prepare to demonstrate sample preparation, bucket calibrations, unit weight procedures, and complete all calculations.
T21	C40	Have a dry aggregate sample ready to be tested and the required NaOH solution available.
T27	C136	Have both coarse and fine aggregate samples dried and ready to be tested. Be able to demonstrate sample preparation, the sieve analysis of both coarse and fine aggregate, and complete all calculations relating to the gradations. The assessor will check the sieving efficiency of all shakers.
T37	D546	Have a mineral filler sample ready to be washed in accordance with the test method. Prepare to demonstrate sample preparation, washing procedures, and complete all calculations.
T84	C128	Have a fine aggregate sample covered in water or at 6% moisture. Prepare to demonstrate sample preparation, the saturated surface dry condition, complete the weighing procedures, and complete all calculations.
T85	C127	Have a coarse aggregate sample soaking in water. Prepare to demonstrate sample preparation, the saturated surface dry condition, the weighing procedures, and complete all calculations.
T96	C131	Have a sample meeting the requirements of grading A, B, C, or D in the method prepared and ready for testing. Prepare to demonstrate sample preparation, abrasion, washing, gradation analysis, and complete all calculations.
T104	C88	Have both a coarse and fine sample graded and ready to be placed in the soundness solution and an additional sample that has been through one or more cycles. Prepare to demonstrate sample preparation, a method of checking the specific gravity of the solution, one full cycle of testing, the final washing and drying procedures, the gradation of the material, and complete all calculations.
T112	C142	Have a sample in the soaking phase of the test. Prepare to demonstrate sample preparation, testing and complete all calculations.
T113	C123	Have both coarse and fine aggregate samples prepared for testing. Adjust the heavy liquid to the proper specific gravity to demonstrate sample preparation and the procedures on both coarse and fine aggregates, and complete all calculations.
T176	D2419	Have a sample processed and ready to demonstrate sampling. Be prepared to demonstrate sample selection, testing procedures, and complete the calculations after the test.
T210	D3744	Have a sample ready to demonstrate both methods A and B. Be prepared to demonstrate sample preparation, all testing procedures, and complete calculations after the test.
T248	C702	Have a sample large enough for demonstration purposes.
T255	C566	Have a sample containing moisture available for testing.

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AASHTO	ASTM	Aggregate Assessment Preparation (Continued)
T304	C1252	Have a sample meeting the requirements of grading A or B in the method prepared and ready for testing. Prepare to demonstrate sample preparation, the calibration of the measure, the uncompacted void procedure, and complete all calculations.
T327	D6928	Have a sample pre-washed in accordance with the test method. Prepare to present calibration materials and records including Brechin Quarry Reference Aggregate (or Drain Brothers) and Calibration Aggregate, demonstrate sample preparation, the test in its entirety, and complete all necessary calculation.
	C535	Have a sample meeting the requirements of grading 1, 2, 3, or 4 in the method prepared and ready for testing. Prepare to demonstrate sample preparation, abrasion, washing, gradation analysis, and complete all calculations.
	D4791	Have a small sample having example pieces that both pass and fail the requirements for demonstration purposes. Prepare to demonstrate sample preparation, the flat, elongated, and flat and elongated testing procedures, and complete all calculations at the end of testing.
	D5821	Have a small sample having example pieces that both pass and fail the requirements for demonstration purposes. Prepare to demonstrate sample preparation, the differences between fractured and non-fractured faces, and complete all calculations at the end of testing.
	D7172	Have a fine aggregate sample available for testing. Calibration records will also be reviewed for the infrared apparatus.
	D7370	Have a dry aggregate sample available for testing.
	D7428	Have a sample pre-washed in accordance with the test method. Prepare to present calibration materials and records including Standard Sutherland Micro-Deval Fine Calibration Aggregate, demonstrate sample preparation, the test in its entirety, and complete all necessary calculation.

