METHOD OF TEST FOR MATERIALS FINER THAN 75 μm SIEVE IN MINERAL AGGREGATES BY WASHING

1. SCOPE

1.1 This method covers a procedure for determining the amount of material finer than a 75 μm sieve in aggregate by washing.

1.2 Two guidelines are included, Guideline A for as-received aggregate samples and Guideline B for coarse aggregate retained on 4.75 mm sieve only. Unless otherwise specified, Guideline A shall be used.

2. RELEVANT DOCUMENTS

2.1 LS-602, Method of Test for Sieve Analysis of Aggregates

2.2 ASTM C 117, Standard Test Method for Materials Finer than 75-μm (No. 200) Sieve in Mineral Aggregates by Washing

2.3 AASHTO T 11 Method of Test for Amount of Material Finer than 0.075-mm Sieve in Aggregate

3. PROCEDURE

3.1 Procedures of ASTM Standard C 117 shall be followed, except as noted below.

3.1.2 Follow ASTM Standard C 117, Procedure A (use of water only) shall be followed unless otherwise specified.

3.1.3 The use of the 1.18 mm protection sieve may be omitted when 100 % of the material passes the 4.75 mm sieve.

3.1.3 Sieves: The minimum diameter of the sieves shall be 200 mm.

3.2 Guideline A: Unless otherwise specified, test the aggregate as-received by using the minimum mass of test sample specified in Section 6 of ASTM C 117.

3.3 Guideline B: To determine the amount of materials finer than the 75 μ m sieve in coarse aggregate retained on 4.75 mm sieve only. Separate the material on the 4.75mm sieve according to the procedure given in LS-602 and test only the material retained on the 4.75 mm sieve fraction. Discard any material passing 4.75 mm sieve.

4. **PRECISION**

4.1 Precision estimates are based on aggregates having a nominal maximum size of 19.0 mm with less than 2.0% finer than the 75 µm sieve. The single-operator standard deviation has been found to be 0.10^A. Therefore, results of two properly conducted tests on samples of the same aggregate by the same operator using the same equipment are not expected to differ by more than 0.28^A of their average, 95% of the time. The multi-laboratory standard deviation has been found to be 0.19^A. Therefore, the results of two properly conducted tests by different laboratories on samples of the same aggregate are not expected to differ by more than 0.53^A of their average, 95% of the time.

^A These numbers represent, respectively, the (1s) and (d2s) limits as described in ASTM C670.

Ministry of Transportation

LOSS BY WASHING - COARSE AGGREGATE

LAB. NO.	INITIAL MASS	MASS AFTER WASHING (g)	LOSS BY WASHING (g)	% וסגג
			-	
PH-CC-373 78-06				
DATE				
OPERATOR				

COMPUTED BY_