

U.S. Army Corps of Engineers (USACE)
SIEVE AND HYDROMETER ANALYSIS

For use of this form, see EM 1110-2-1906; the Proponent agency is CECW-EC.

Purpose: The purpose of this form is to document sieve and hydrometer analysis.

Date: _____

Project: _____

Boring No.: _____ Sample No.: _____

Total Weight in Grams of Sample, W_s = _____ Weight in Grams of Material > No. 4 Sieve = _____

Sieve Openings		U.S. Standard Sieve Size on Number	Weight Retained in Grams	Percent Retained		Percent Finer by Weight
Inches	Millimeters			Partial	Total	
3.00		3-in.				
2.00		2-in.				
1.50		1-1/2-in.				
1.00	25.4	1-in.				
0.750	19.1	3/4-in.				
0.500	12.7	1/2-in.				
0.375	9.52	3/8-in.				
0.250	6.35	No. 3				
0.187	4.76	No. 4				
		Pan				
0.132	3.36	No. 6				
0.094	2.38	No. 8				
0.079	2.00	No. 10				
0.047	1.19	No. 16				
0.033	0.84	No. 20				
0.023	0.59	No. 30				
0.0165	0.42	No. 40				
0.0117	0.297	No. 50				
0.0083	0.210	No. 70				
0.0059	0.149	No. 100				
0.0041	0.105	No. 140				
0.0029	0.074	No. 200				
		Pan				
TOTAL WEIGHT IN GRAMS						

Partial percent retained = $\frac{\text{wt in grams on a sieve}}{\text{wt in grams of sample used for a given series of sieves}} \times 100$

Total percent retained = $\frac{\text{wt in grams retained on a sieve}}{\text{total wt in grams of oven-dry sample}} \times 100$

For an individual sieve, the percent finer by weight = percent finer than next larger sieve percent retained on individual sieve

Remarks

Technician: _____ Computed By: _____ Checked By: _____

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