

GRAIN SIZE ANALYSIS DATA SHEET

ASTM D6913

PROJECT

Sample _____

Project no.:		Project:			
Date sampled:		Date received:		Date tested:	
Boring no.:	Sample no.:	Elevation/depth:		Sample length:	
Test requested by:		Technician:		Checked by and title:	
Location:					
Description/visual classification:					
<input type="checkbox"/> Bulk <input type="checkbox"/> SPT <input type="checkbox"/> Thin wall <input type="checkbox"/> Other:					

SPECIMEN DATA

Test method: <input type="checkbox"/> A <input type="checkbox"/> B	<input type="checkbox"/> Single sieve set, last sieve =	<input type="checkbox"/> Composite sieve test with 1 subspecimen	<input type="checkbox"/> Composite sieve test with 2 subspecimens
Specification set:			Hydrometer performed (ASTM D7928): <input type="checkbox"/> Yes <input type="checkbox"/> No
Whole specimen tested was selected by:			
<input type="checkbox"/> Using the full sample as received <input type="checkbox"/> A2.1.1 splitter or riffle box <input type="checkbox"/> A2.1.2 quartering <input type="checkbox"/> A2.1.3 miniature stockpile <input type="checkbox"/> Sample broken up by: <input type="checkbox"/> Mortar & pestle <input type="checkbox"/> Pulverizer <input type="checkbox"/> Hand <input type="checkbox"/> Other:			
Whole specimen moisture state when sampled: <input type="checkbox"/> Moist <input type="checkbox"/> Air-dry <input type="checkbox"/> Oven			

SINGLE SIEVE SET SIEVING DATA

Single sieve set total specimen	Washed:	Soaked for:	Dispersant used: <input type="checkbox"/> Yes <input type="checkbox"/> No	Coarser sieve over #200?
	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	min.	Apparatus used:	
	Moist, S, M _m	Air-dry, S, M _{ad}	Single Sieve Set Oven-dry weight, S, M _d	Washed, S _w , M _d
Specimen and tare:				
Tare ID/weight:				
Specimen weight:	S, M _m =	S, M _{ad} =	S, M _d =	S _w , M _d =

COMPOSITE SIEVING DATA 1st separation

Subspecimen selection: <input type="checkbox"/> A2.1.1 splitter or riffle box <input type="checkbox"/> A2.1.2 quartering <input type="checkbox"/> A2.1.3 miniature stockpile <input type="checkbox"/> D7928 sedimentation specimen				Moisture state when sampled: <input type="checkbox"/> Moist <input type="checkbox"/> Air-dry <input type="checkbox"/> Oven	
Composite 1st separation	Washed:	Soaked for:	Dispersant used: <input type="checkbox"/> Yes <input type="checkbox"/> No	1 st Separation sieve:	
	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	min.	Apparatus used:		
	Coarse portion, oven dry, CP, M _d	Coarse portion, washed, CP _w , M _d	Fine portion, moist, FP, M _m	Fine subspecimen, dry, SubS, M _d	Fine subspecimen, washed, dry, SubS _w , M _d
Specimen and tare:					
Tare ID/weight:					
Specimen weight:	CP, M _d =	CP _w , M _d =	FP, M _m =	SubS, M _d =	SubS _w , M _d =
Fine portion moisture, w _{fp}	Wet:	Dry:	Tare ID:	Tare:	w _{fp} =
Composite sieving total specimen calculated dry weight $S, M_d = CP, M_d + FP, M_m / (1 + w_{fp}/100)$:					

SIEVING DATA: Composite sieve, double separation, 2nd coarse portion

Sample broken up by: Mortar & pestle Pulverizer Hand Other:

Cumulative material pan:		ID:		Tare weight:	
Sieve number	Mass retained with tare	Individual sieve tare	Cumulative mass retained 2 nd CP,CMR _N	Load on Sieve	Overall % Passing, PP _N
			2 nd CP,CMR _{first}		
2 nd CP,FPR _{first} / SubS,M _d (sec 12.6.2.4) =					2% max
Sieve time, min:			Sieve size:		
2 nd CP,MR _{pan} = 2 nd CP,CMR _{pan} - CP,CMR _{last sieve} =					
2 nd coarse composite sieve loss check: sec 11.6.2.2 and 12.6.2.3			2 nd CP _L = 100 * ((2 nd CP,M _d - 2 nd CP _w ,M _d) + 2 nd CP,MR _{pan}) / SubS, M _d =		0.5% max

Sample _____

Maximum sample size for 1% or more retained on given sieve, see TABLE 2

Sieve	Method A grams	Method B grams
0.425 mm #40	50	75
2.0 mm #10	50	100
4.75 mm #4	75	200
9.5 mm 3/8"	165	n/a
19 mm 3/4"	1300	n/a
25.4 mm 1"	3000	n/a
38.1 mm 1-1/2"	10000	n/a
50.8 mm 2"	25000	n/a
76.2 mm 3"	70000	n/a

Notes: _____

SIEVING DATA: Composite sieve fine portion, subspecimen 2nd subspecimen

Sample broken up by: Mortar & pestle Pulverizer Hand Other:

Cumulative material pan:		ID:		Tare weight:	
Sieve number	Mass retained with tare	Individual sieve tare	Cumulative mass retained SubS,FCMR _N or 2 nd SubS,FCMR _N	Load on Sieve	Overall % Passing, PP _N
			SubS,FCMR _{first} or 2 nd SubS,FCMR _{first}		
<input type="checkbox"/> SubS,FCMR _{first} / SubS,M _d (sec 11.6.3.2) = <input type="checkbox"/> 2 nd SubS,FCMR _{first} / 2 nd SubS,M _d (sec 12.6.2.4) =					2% max
Sieve time, min:			Sieve size:		

Technicians/reviewers			
	Setup	Dry mass	Wash
Test specimen			
Coarse portion			
Fine portion			
Data entry	Date		
	By		
Checked			
Spot checked			
Reviewed			
Notes: _____ _____ _____ _____ _____ _____ _____			