

Project Information

Project name:

Project Number:

Client Name:

Laboratory Information

Laboratory:

Test Standard:

Test Method:

Technician:

Test Date:

Prep. Method:

Sample By:

Report Date:

Splitting Method:

Sample Information

Structure:

Sample Name:

Depth From:

Work Area:

Sample Number:

Depth To:

Source:

Sample Date:

North:

Material Type:

Elev:

East:

Wt Dry Soil, g			
Wt Washed, g			
Grain Size Distribution			
Screen	(mm)	Wt. Ret	% Ret
Coarse Aggregate			
4"	100		
3 1/2"	90		
3"	75		
2 1/2"	63		
2"	50		
1 1/2"	38		
1"	25		
3/4"	19		
1/2"	12.5		
3/8"	9.5		
No. 4	4.75		
Total			
Fine Aggregate			
No. 4	4.75		
No. 8	2.36		
No. 16	1.18		
No. 30	0.6		
No. 50	0.3		
No. 100	0.15		
Pan			
Total			

Test Result:	
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Screen	Weight of Sample for each size (required)	Star Weight Ret	Designated Sieve After Test	Final Weight Ret	Percentage Passing Designated Sieve After Test	Weighed Percentage of Mass Loss
Soundness Test of Fine Aggregate						
Minus 150 µm (No. 100)	100g					
300 µm (No. 50) to No. 100	100g		No. 100			
600 µm (No. 30) to No. 50	100g		No. 50			
1.18 mm (No. 16) to No. 30	100g		No. 30			
2.36 mm (No. 8) to No. 16	100g		No. 16			
4.75 mm (No. 4) to No. 8	100g		No. 8			
9.5mm(38 in.) to No. 4	100g		No. 4			
Totals			---			
Soundness Test of Coarse Aggregate						
9.5mm(38 in.) to 4.75 mm (No. 4)	(300+-5)g		4.0 mm (No. 5)			
12.5 mm (1/2 in) to 9.5 mm (3/8 in)	(330+-5)g		8.0 mm (5/16 in)			
19.0mm(3/4 in) to 12.5 mm (1/2 in)	(670+-10)g					
25 mm (1 in) to 19.0 mm (3/4 in)	(500+-30)g		16.0 mm (5/8 in)			
37.5mm(1 1/2 in) to 25.0 mm (1 in.)	(1000+-50)g					
50 mm (2 in) to 37.5 mm (1 1/2 in)	(2000+-200)g		31.5 mm (1 1/4 in)			
63 mm (2 1/2 in) to 50 mm (2 in)	(3000+-300)g					
75 mm (3 in) to 63 mm (2 1/2 in)	(7000+-100)g		50 mm (2 in)			
90 mm (3 1/2 in) to 75 mm (3 in)	(7000+-1000)g		63 mm (2 1/2 in)			
100 mm (4 in) to 90 mm (3 1/2 in)	(7000+-1000)g		75 mm (3 in)			
Totals			---			

Test Information

Cycle	Start Date	Room Temperature (°C)	Solution Temperature (°C)	Specific Gravity of the Solution
1				
2				
3				
4				
5				
Solution used:		Sodium Sulfate		

Qualitative Examination of Coarse Sizes									
Sieve Size	Particles Exhibiting Distress								Total No. of Particles Before Test
	Splitting		Crumbling		Cracking		Flaking		
	No.	%	No.	%	No.	%	No.	%	
37.5mm(1 1/2 in) to 19.0 mm (3/4 in)									
63 mm (2 1/2 in) to 37.5 mm (1 1/2 in)									
75 mm (3 in) to 63 mm (2 1/2 in)									
91 mm (3 1/2 in) to 75 mm (3 in)									
100 mm (4 in) to 90 mm (3 1/2 in)									

Laboratory Comments:	Field Comments/Corrective actions:
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Lab Reviewed By:_____

Date:_____

DB Checked by:_____

Entered in DB by:_____

Approved By:_____