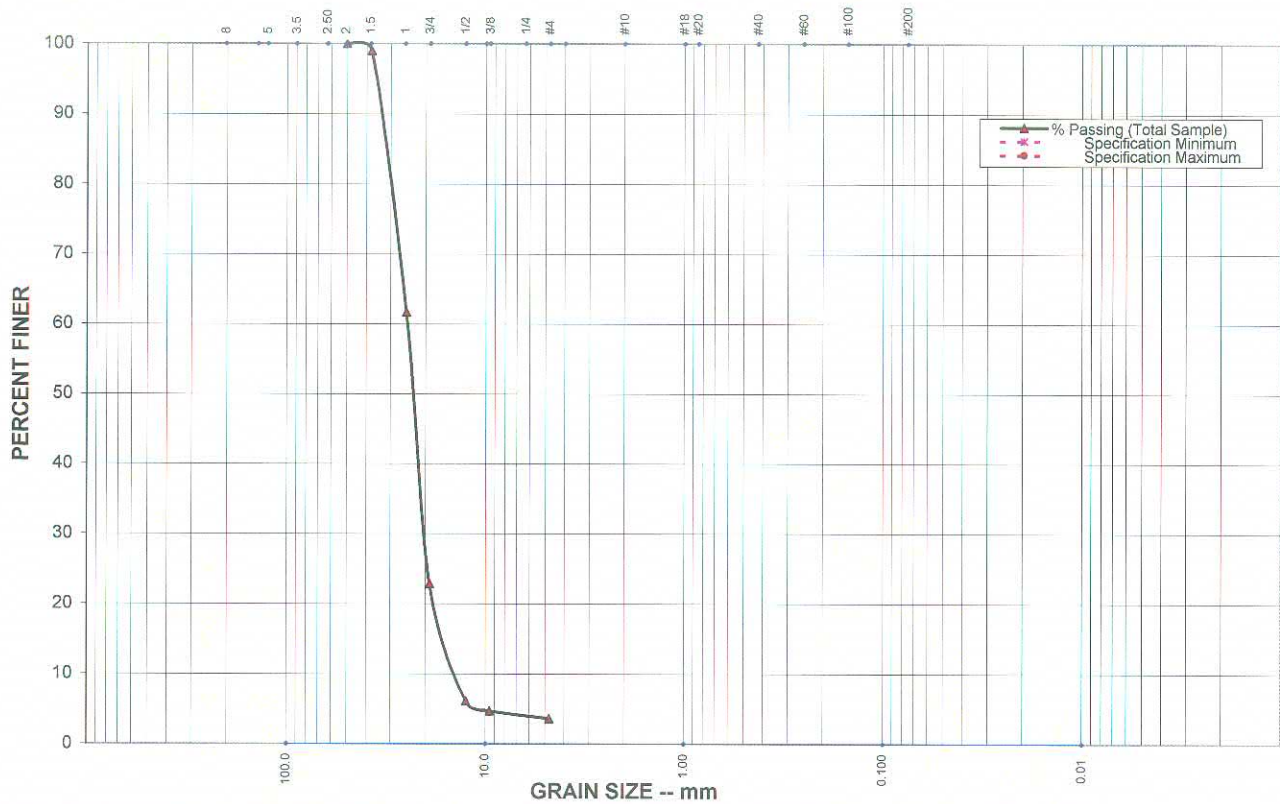


GRAIN SIZE DISTRIBUTION TEST REPORT

ASTM TEST METHODS: Soil; D422, D1140 Concrete Aggregate; C136, C117



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0	96	% Sand			4	
					Silt (>0.002mm)	Clay (<0.002mm)

Classification: WELL GRADED GRAVEL, gray (GW)

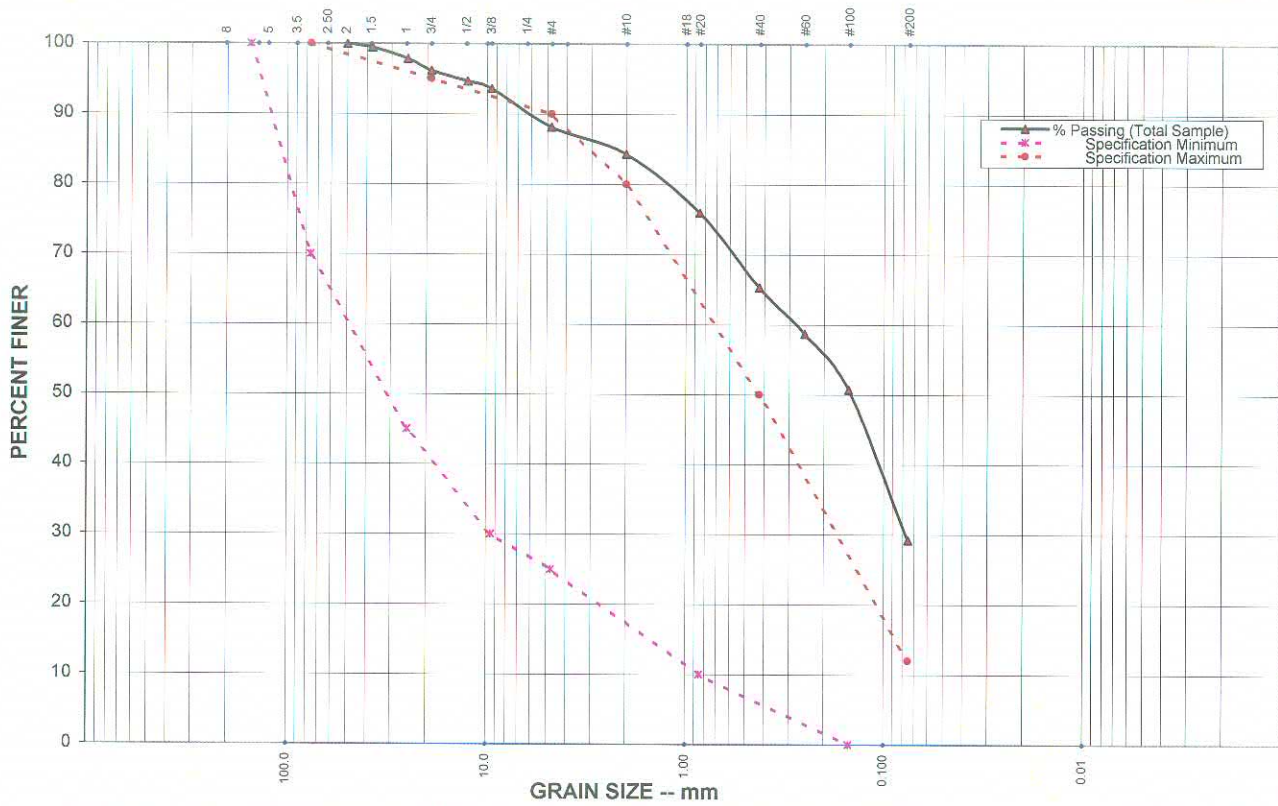
	Sieve Size (mm)	U.S. Sieve Size (in.)	Cumulative Retained (g)	% Passing (Total Sample)	% Passing (Sand Portion)	Specification Minimum	Specification Maximum
Particle Diameters (mm)	200.0	8"					
	152.4	6"					
	90.0	3.5"					
	76.2	3"					
	63.0	2.5"					
D₁₀ = 15.00	50.0	2"	0	100			
D₃₀ = 20.00	37.5	1.5"	272	99			
D₆₀ = 25.00	25.0	1"	10369	62			
Coefficients	19.0	3/4"	20870	23			
	12.5	1/2"	25388	6			
	9.5	3/8"	25769	5			
	4.75	#4	26063	4			
	C_u = 1.7	2.00	#10				
	C_c = 1.1	0.85	#20				
		0.425	#40				
		0.250	#60				
		0.150	#100				
		0.075	#200				
Total Dry Wt.			27043	g			
Split Wt.			27043	g			

Project: W.B. Mason Expansion	Project No.: J3091112	Report #: J3091112.0004.
Location: Portland, Maine	Specification: Stone for use below footings.	Date: 01/29/10
Source: Portland Sand and Gravel	Sampled from: Stockpile	

<p style="text-align: center;">Terracon 15 Holly Street Scarborough, ME 04074 (207) 396-5374 fax: (207) 396-5394 www.terracon.com</p>	<p>Remarks:</p> <p>Tested By: <i>Ethan Mann</i> Date: 02/02/10</p> <p>Reviewed By: <i>W. Sell</i> Date: 2/4/10</p>
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GRAIN SIZE DISTRIBUTION TEST REPORT

ASTM TEST METHODS: Soil: D422, D1140 Concrete Aggregate: C136, C117



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines
0	12	7	32	61	Silt (>0.002mm) Clay (<0.002mm)
				% Sand	59
					29.2

Classification: CLAYEY SAND; brown (SC)

	Sieve Size	U.S. Sieve Size	Cumulative	% Passing	% Passing	Specification		
	(mm)	(in.)	Retained (g)	(Total Sample)	(Sand Portion)	Minimum	Maximum	
Particle Diameters (mm)	200.0	8"				100		
	152.4	6"						
	90.0	3.5"						
	76.2	3"				70	100	
	63.0	2.5"						
D₁₀ = 0.02	50.0	2"	0	100		(100)*		
D₃₀ = 0.08	37.5	1.5"	145	99				
D₆₀ = 0.28	25.0	1"	567	98				
Coefficients	19.0	3/4"	1007	96		45	95	
	12.5	1/2"	1406	95				
	9.5	3/8"	1683	94				
	4.75	#4	3116	88		30	90	
	C_u = 14.0	2.00	#10	14.80	84		25	80
	C_c = 1.1	0.85	#20	46.90	76			
		0.425	#40	87.60	65		10	50
		0.250	#60	113.10	59			
		0.150	#100	143.80	51			
		0.075	#200	226.10	29.2		0	12

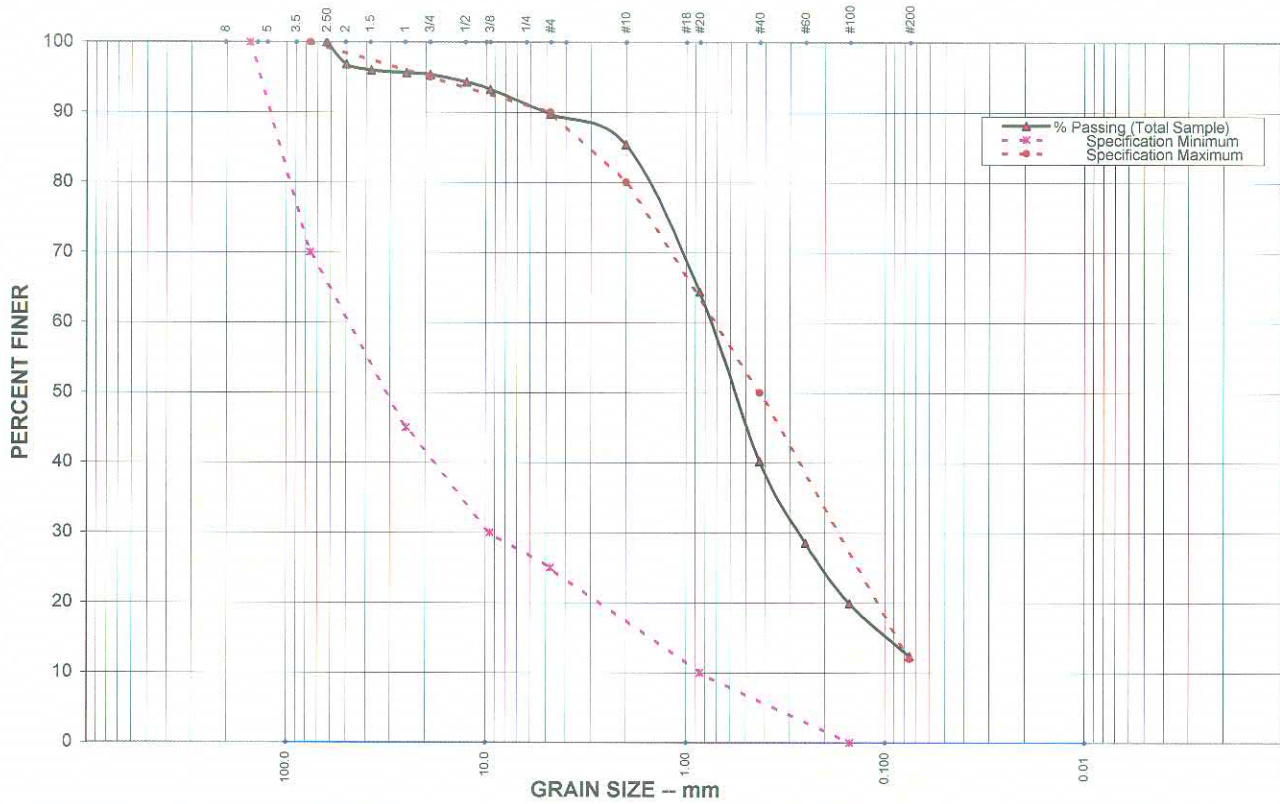
Total Dry Wt. 26268 g
Split Wt. 338.1 g * Max. 2-inch particle size within 12-inches of the underside of footings and sl

Project: W.B. Mason Expansion	Project No.: J3091112	Report #: J3091112.0005
Location: Portland, Maine	Specification: Structural Fill	Date: 01/29/10
Source: Blended trench spoils from footing excavation.	Sampled from: Stockpile	

<p style="text-align: center;">Terracon 15 Holly Street Scarborough, ME 04074 (207) 396-5374 fax: (207) 396-5394 www.terracon.com</p>	<p>Remarks: Gradation does not meet specification</p> <p>Tested By: <i>Ethan Marro</i> Date: 02/01/10 Reviewed By: <i>[Signature]</i> Date: 2/4/10</p>
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GRAIN SIZE DISTRIBUTION TEST REPORT

ASTM TEST METHODS: Soil; D422, D1140 Concrete Aggregate; C136, C117



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines	
0	10	6	58	36	Silt (>0.002mm)	Clay (<0.002mm)
		% Sand			77	12.4

Classification: CLAYEY SAND; brown (SC)

	Sieve Size	U.S. Sieve Size	Cumulative	% Passing	% Passing	Specification	
	(mm)	(in.)	Retained (g)	(Total Sample)	(Sand Portion)	Minimum	Maximum
Particle Diameters (mm)	200.0	8"				100	
	152.4	6"					
	90.0	3.5"				70	100
	76.2	3"					
	63.0	2.5"	0	100			
	D ₁₀ = 0.05	50.0	2"	721	97		(100)*
D ₃₀ = 0.27	37.5	1.5"	916	96			
D ₆₀ = 0.74	25.0	1"	1002	96			
Coefficients	19.0	3/4"	1061	95		45	95
	12.5	1/2"	1297	94			
	C _u = 14.8	9.5	3/8"	1547	93		
	C _c = 2.0	4.75	#4	2341	90	30	90
		2.00	#10	15.80	85	25	80
		0.85	#20	92.50	64		
		0.425	#40	180.60	40	10	50
		0.250	#60	223.10	29		
		0.150	#100	254.50	20		
		0.075	#200	282.00	12.4	0	12

Total Dry Wt. 22802 g
Split Wt. 327.1 g * Max. 2-inch particle size within 12-inches of the underside of footings and sl

Project: W.B. Mason Expansion	Project No.: J3091112	Report #: J3091112.0003
Location: Portland, Maine	Specification: Structural Fill	Date: 02/01/10
Source: Existing Interior Fill @ North End of the Building	Sampled from: Stockpile	

Terracon
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Scarborough, ME 04074
(207) 396-5374 fax: (207) 396-5394
www.terracon.com

Remarks:
Gradation does not meet specification

Tested By: *Ethan Maro* Date: 02/02/10
Reviewed By: *W.S. Sullivan* Date: 2/4/10