

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
FINE AGGREGATE ANALYSIS REPORT - 2017**

Vendor:	<u>MATERIALS SAND and STONE</u>	Lab No:	<u>20170114</u>
Source:	<u>MOUNTAINDALE QUARRY</u>	Location:	<u>SMITHFIELD, RI</u>

Sieve Analysis of Fine Aggregate		AASHTO T-27							
	3/8"	# 4	# 8	# 16	# 30	# 50	# 100	# 200	F.M.:
Percent Passing :									
Unit Weight and Void in Aggregate		AASHTO T-19 / T-304							
Compacted	Unit Weight:	_____	(lbs./cu. ft.)						
Loose	Unit Weight:	_____	(lbs./cu. ft.)						
Specific Gravity and Absorption of Fine Aggregate		AASHTO T-84							
Bulk S.G.:	_____	Apparent S.G.:	_____						
Bulk (SSD):	_____	Absorption:	_____						
Plastic Fines by Sand Equivalence		AASHTO T-176							
Plastic Fines:	_____								
Organic Impurities in Sands for Concrete		AASHTO T-21							
_____ _____									
Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-37							
_____ %									

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Vendor:	<u>RICHMOND SAND and GRAVEL</u>	Lab No:	<u>20170125</u>
Source:	<u>STILSON ROAD PIT</u>	Location:	<u>RICHMOND, RI</u>

Sieve Analysis of Fine Aggregate		AASHTO T-27								
		3/8"	# 4	# 8	# 16	# 30	# 50	# 100	# 200	F.M.:
Percent Passing :		100.0	96.7	77.3	54.0	29.1	11.0	3.3	1.0	3.29

Unit Weight and Void in Aggregate		AASHTO T-19 / T-304	
Compacted	Unit Weight:	<u>99.84</u>	(lbs./cu. ft.)
Loose	Unit Weight:	<u>94.28</u>	(lbs./cu. ft.)

Specific Gravity and Absorption of Fine Aggregate		AASHTO T-84	
Bulk S.G.:	<u>2.606</u>	Apparent S.G.:	<u>2.631</u>
Bulk (SSD):	<u>2.616</u>	Absorption:	<u>0.36</u>

Plastic Fines by Sand Equivalence		AASHTO T-176	
Plastic Fines:	<u>93.00</u>		

Organic Impurities in Sands for Concrete		AASHTO T-21	
<u>Less than Organic Plate # 1</u>			

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-37	
<u> </u> %			

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Vendor:	<u>WINDHAM MATERIALS</u>	Lab No:	<u>20170195</u>
Source:	<u>WILLIMANTIC CT.</u>	Location:	<u>WILLIMANTIC CT.</u>

Sieve Analysis of Fine Aggregate		AASHTO T-27
Unit Weight and Void in Aggregate		AASHTO T-19 / T-304
Compacted	Unit Weight:	_____ (lbs./cu. ft.)
Loose	Unit Weight:	_____ (lbs./cu. ft.)
Specific Gravity and Absorption of Fine Aggregate		AASHTO T-84
Bulk S.G.:	_____	Apparent S.G.:

Bulk (SSD):	_____	Absorption:

Plastic Fines by Sand Equivalence		AASHTO T-176
Plastic Fines:	_____	
Organic Impurities in Sands for Concrete		AASHTO T-21

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-37
	_____ %	

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Vendor: <u>BARNES</u>	Lab No: <u>20170218</u>
Source: <u>PUTNAM, CT</u>	Location: <u>PUTNAM, CT</u>

Sieve Analysis of Fine Aggregate	AASHTO T-27																		
Percent Passing :	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px;">3/8"</th> <th style="padding: 2px;"># 4</th> <th style="padding: 2px;"># 8</th> <th style="padding: 2px;"># 16</th> <th style="padding: 2px;"># 30</th> <th style="padding: 2px;"># 50</th> <th style="padding: 2px;"># 100</th> <th style="padding: 2px;"># 200</th> <th style="padding: 2px;">F.M.:</th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	3/8"	# 4	# 8	# 16	# 30	# 50	# 100	# 200	F.M.:									
3/8"	# 4	# 8	# 16	# 30	# 50	# 100	# 200	F.M.:											
Unit Weight and Void in Aggregate	AASHTO T-19 / T-304																		
Compacted Unit Weight: _____ (lbs./cu. ft.)																			
Loose Unit Weight: _____ (lbs./cu. ft.)																			
Specific Gravity and Absorption of Fine Aggregate	AASHTO T-84																		
Bulk S.G.: _____ Apparent S.G.: _____																			
Bulk (SSD): _____ Absorption: _____																			
Plastic Fines by Sand Equivalence	AASHTO T-176																		
Plastic Fines: _____																			
Organic Impurities in Sands for Concrete	AASHTO T-21																		

Amount of Material Finer than # 200 Sieve in Aggregate	AASHTO T-37																		
_____ %																			

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Vendor: <u>FILLMORE</u>	Lab No: <u>20170220</u>
Source: _____	Location: _____

Sieve Analysis of Fine Aggregate	AASHTO T-27																		
Percent Passing :	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 10%;">3/8"</th> <th style="width: 10%;"># 4</th> <th style="width: 10%;"># 8</th> <th style="width: 10%;"># 16</th> <th style="width: 10%;"># 30</th> <th style="width: 10%;"># 50</th> <th style="width: 10%;"># 100</th> <th style="width: 10%;"># 200</th> <th style="width: 10%;">F.M.:</th> </tr> </thead> <tbody> <tr> <td>100.0</td> <td>98.1</td> <td>90.4</td> <td>75.8</td> <td>51.0</td> <td>23.9</td> <td>6.6</td> <td>2.1</td> <td>2.54</td> </tr> </tbody> </table>	3/8"	# 4	# 8	# 16	# 30	# 50	# 100	# 200	F.M.:	100.0	98.1	90.4	75.8	51.0	23.9	6.6	2.1	2.54
3/8"	# 4	# 8	# 16	# 30	# 50	# 100	# 200	F.M.:											
100.0	98.1	90.4	75.8	51.0	23.9	6.6	2.1	2.54											
Unit Weight and Void in Aggregate	AASHTO T-19 / T-304																		
Compacted Unit Weight: <u>105.33</u> (lbs./cu. ft.)																			
Loose Unit Weight: <u>100.84</u> (lbs./cu. ft.)																			
Specific Gravity and Absorption of Fine Aggregate	AASHTO T-84																		
Bulk S.G.: <u>2.656</u> Apparent S.G.: <u>2.692</u>																			
Bulk (SSD): <u>2.669</u> Absorption: <u>0.50</u>																			
Plastic Fines by Sand Equivalence	AASHTO T-176																		
Plastic Fines: <u>94.00</u>																			
Organic Impurities in Sands for Concrete	AASHTO T-21																		
_____ <u>Between Organic Plate # 3 and # 4</u> _____																			
Amount of Material Finer than # 200 Sieve in Aggregate	AASHTO T-37																		
_____ %																			

