

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

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5	J.H. LYNCH; FIRST ST. QUARRY
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13	DRY BRIDGE SAND and STONE; SLOCUM PIT
14	SOUTH COUNTY S & G; SOUTH COUNTY HILLS
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**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

INDEX

VENDOR NO.	VENDOR AND SOURCE
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**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
AGGREGATE INDUSTRIES

VENDOR NO:
0

SOURCE:
GREEN STREET QUARRY

LOCATION:
WRENTHAM, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	86.6	100.0	100.0
1/2"	12.8	80.1	100.0
3/8"	2.4	26.6	99.5
#4	1.0	2.6	12.2
#8	0.9	1.4	1.6

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	91.44
1/2"	94.41
3/8"	98.91

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	22.56

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
AGGREGATE INDUSTRIES

VENDOR NO:
0

SOURCE:
GREEN STREET QUARRY

LOCATION:
WRENTHAM, MA

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:	2.637	2.657	2.617			
Specific Gravity (S.S.D.):	2.668	2.668	2.625			
Apparent Specific Gravity:	2.720	2.686	2.638			
Absorption:	1.153	0.397	0.309			

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.03
1/2" - 3/8"	0.08
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	0.70
1/2"	1.18
3/8"	0.94
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
SM - LO RUSSO

VENDOR NO:
2

SOURCE:
ELYSIUM QUARRY

LOCATION:
WRENTHAM, MA.

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	#Num!	#Num!	#Num!
1 1/2"	#Num!	#Num!	#Num!
1"	#Num!	#Num!	#Num!
3/4"	#Num!	#Num!	#Num!
1/2"	#Num!	#Num!	#Num!
3/8"	#Num!	#Num!	#Num!
#4	#Num!	#Num!	#Num!
#8	#Num!	#Num!	#Num!

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"
1"
3/4"
1/2"
3/8"

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

Run #	LA TYPE	LA RESULT
Run # 1	B	#Num!

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
SM - LO RUSSO

VENDOR NO:
2

SOURCE:
ELYSIUM QUARRY

LOCATION:
WRENTHAM, MA.

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE: # 4 3/8" 1/2" 3/4" 1" 1 1/2"

Bulk Specific Gravity:

Specific Gravity (S.S.D.):

Apparent Specific Gravity:

Absorption:

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE: **% LOSS**

2" - 1 1/2"

1 1/2" - 1"

1" - 3/4"

3/4" - 1/2"

1/2" - 3/8"

3/8" - # 4

4 - # 8

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size **% Passing # 200 sieve**

1 1/2"

1"

3/4"

1/2"

3/8"

4

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
J. SANTORO

VENDOR NO:
4

SOURCE:
SMITHFIELD, RI

LOCATION:
SMITHFIELD, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing

2"

1 1/2"

1"

3/4"

1/2"

3/8"

#4

#8

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"

1"

3/4" 100.36

1/2" 97.38

3/8" 93.98

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE

LA RESULT

Run # 1

B

14.46

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
J. SANTORO

VENDOR NO:
4

SOURCE:
SMITHFIELD, RI

LOCATION:
SMITHFIELD, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE: # 4 3/8" 1/2" 3/4" 1" 1 1/2"

Bulk Specific Gravity:

Specific Gravity (S.S.D.):

Apparent Specific Gravity:

Absorption:

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE: **% LOSS**

2" - 1 1/2"

1 1/2" - 1"

1" - 3/4"

3/4" - 1/2"

1/2" - 3/8"

3/8" - # 4

4 - # 8

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size **% Passing # 200 sieve**

1 1/2"

1"

3/4"

1/2"

3/8"

4

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
J.H. LYNCH

VENDOR NO:
5

SOURCE:
FIRST ST. QUARRY

LOCATION:
CUMBERLAND, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	85.6	100.0	100.0
1/2"	8.1	77.2	100.0
3/8"	1.9	17.2	97.3
#4	0.9	1.0	9.6
#8	0.7	0.8	1.3

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	100.36
1/2"	97.38
3/8"	93.98

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

Run #	LA TYPE	LA RESULT
Run # 1	B	14.46

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
J.H. LYNCH

VENDOR NO:
5

SOURCE:
FIRST ST. QUARRY

LOCATION:
CUMBERLAND, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.772	2.786	2.879		
Specific Gravity (S.S.D.):		2.789	2.797	2.886		
Apparent Specific Gravity:		2.820	2.818	2.899		
Absorption:		0.612	0.411	0.235		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.36
1/2" - 3/8"	0.32
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	1.35
3/4"	2.07
1/2"	2.58
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
PJ KEATING

VENDOR NO:
8

SOURCE:
PHENIX AVENUE QUARRY

LOCATION:
CRANSTON, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	99.7	100.0	100.0
3/4"	87.3	100.0	100.0
1/2"	17.0	72.9	100.0
3/8"	4.3	15.3	88.6
#4	1.8	1.6	10.4
#8	1.4	1.2	2.7

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	95.90
1/2"	94.41
3/8"	93.98

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	28.39

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
PJ KEATING

VENDOR NO:
8

SOURCE:
PHENIX AVENUE QUARRY

LOCATION:
CRANSTON, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.762	2.749	2.713		
Specific Gravity (S.S.D.):		2.777	2.761	2.724		
Apparent Specific Gravity:		2.806	2.783	2.743		
Absorption:		0.568	0.444	0.394		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.18
1/2" - 3/8"	0.23
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	0.63
1/2"	0.97
3/8"	1.09
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
DRY BRIDGE SAND and STONE

VENDOR NO:
13

SOURCE:
SLOCUM PIT

LOCATION:
NORTH KINGSTOWN, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	99.7	100.0	100.0
3/4"	92.3	99.9	100.0
1/2"	31.8	96.7	99.5
3/8"	7.2	58.3	90.5
#4	1.6	3.6	28.3
#8	1.3	1.5	4.9

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	98.87
1/2"	95.90
3/8"	98.91

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

	LA TYPE	LA RESULT
Run # 1	B	35.02

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
DRY BRIDGE SAND and STONE

VENDOR NO:
13

SOURCE:
SLOCUM PIT

LOCATION:
NORTH KINGSTOWN, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.613	2.620	2.628		
Specific Gravity (S.S.D.):		2.637	2.643	2.647		
Apparent Specific Gravity:		2.676	2.682	2.680		
Absorption:		0.906	0.878	0.740		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.25
1/2" - 3/8"	0.63
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	0.86
1/2"	0.98
3/8"	1.20
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
SOUTH COUNTY S & G

VENDOR NO:
14

SOURCE:
SOUTH COUNTY HILLS

LOCATION:
S. KINGSTOWN, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	81.9	100.0	100.0
1/2"	5.5	78.3	100.0
3/8"	1.7	17.2	96.6
#4	1.2	2.0	15.1
#8	1.1	1.6	1.5

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	91.44
1/2"	89.96
3/8"	89.04

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	50.06

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
SOUTH COUNTY S & G

VENDOR NO:
14

SOURCE:
SOUTH COUNTY HILLS

LOCATION:
S. KINGSTOWN, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.585	2.584	2.588		
Specific Gravity (S.S.D.):		2.609	2.604	2.605		
Apparent Specific Gravity:		2.648	2.638	2.634		
Absorption:		0.925	0.794	0.671		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.03
1/2" - 3/8"	0.07
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	0.58
1/2"	0.48
3/8"	0.31
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
TILCON - WAUREGAN

VENDOR NO:
18

SOURCE:
WAUREGAN QUARRY

LOCATION:
WAUREGAN, CT

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	#Num!	#Num!	#Num!
1 1/2"	#Num!	#Num!	#Num!
1"	#Num!	#Num!	#Num!
3/4"	#Num!	#Num!	#Num!
1/2"	#Num!	#Num!	#Num!
3/8"	#Num!	#Num!	#Num!
#4	#Num!	#Num!	#Num!
#8	#Num!	#Num!	#Num!

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"
1"
3/4"
1/2"
3/8"

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

Run #	LA TYPE	LA RESULT
Run # 1	B	#Num!

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
TILCON - WAUREGAN

VENDOR NO:
18

SOURCE:
WAUREGAN QUARRY

LOCATION:
WAUREGAN, CT

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE: # 4 3/8" 1/2" 3/4" 1" 1 1/2"

Bulk Specific Gravity:

Specific Gravity (S.S.D.):

Apparent Specific Gravity:

Absorption:

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE: **% LOSS**

2" - 1 1/2"

1 1/2" - 1"

1" - 3/4"

3/4" - 1/2"

1/2" - 3/8"

3/8" - # 4

4 - # 8

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size **% Passing # 200 sieve**

1 1/2"

1"

3/4"

1/2"

3/8"

4

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
RAWSON SAND and GRAVEL

VENDOR NO:
20

SOURCE:
CHASE PIT

LOCATION:
PUTNAM, CT

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2
2"	100.0	100.0
1 1/2"	100.0	100.0
1"	100.0	100.0
3/4"	98.8	100.0
1/2"	61.1	85.7
3/8"	21.3	41.9
#4	2.0	2.9
#8	1.2	2.1

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	94.41
1/2"	100.36
3/8"	

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	29.50

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
RAWSON SAND and GRAVEL

VENDOR NO:
20

SOURCE:
CHASE PIT

LOCATION:
PUTNAM, CT

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:			2.613	2.611		
Specific Gravity (S.S.D.):			2.639	2.637		
Apparent Specific Gravity:			2.682	2.680		
Absorption:			0.980	0.982		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.22
1/2" - 3/8"	0.20
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	0.78
1/2"	0.78
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
PJ KEATING

VENDOR NO:
21

SOURCE:
SOUTH MAIN ST. QUARRY

LOCATION:
ACUSHNET, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	94.0	99.9	100.0
1/2"	21.6	89.1	100.0
3/8"	5.4	31.8	90.2
#4	2.4	5.8	18.7
#8	2.2	3.1	4.3

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	94.41
1/2"	97.38
3/8"	98.91

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

Run #	LA TYPE	LA RESULT
Run # 1	B	22.76

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
PJ KEATING

VENDOR NO:
21

SOURCE:
SOUTH MAIN ST. QUARRY

LOCATION:
ACUSHNET, MA

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.658	2.660	2.632		
Specific Gravity (S.S.D.):		2.679	2.677	2.658		
Apparent Specific Gravity:		2.714	2.707	2.701		
Absorption:		0.781	0.659	0.971		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.07
1/2" - 3/8"	0.13
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
BROX INDUSTRIES - HUDSON

VENDOR NO:
23

SOURCE:
HUDSON QUARRY

LOCATION:
HUDSON, NH

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	#Num!	#Num!	#Num!
1 1/2"	#Num!	#Num!	#Num!
1"	#Num!	#Num!	#Num!
3/4"	#Num!	#Num!	#Num!
1/2"	#Num!	#Num!	#Num!
3/8"	#Num!	#Num!	#Num!
#4	#Num!	#Num!	#Num!
#8	#Num!	#Num!	#Num!

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"
1"
3/4"
1/2"
3/8"

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
B	#Num!

Run # 1

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
BROX INDUSTRIES - HUDSON

VENDOR NO:
23

SOURCE:
HUDSON QUARRY

LOCATION:
HUDSON, NH

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE: # 4 3/8" 1/2" 3/4" 1" 1 1/2"

Bulk Specific Gravity:

Specific Gravity (S.S.D.):

Apparent Specific Gravity:

Absorption:

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE: % LOSS

2" - 1 1/2"

1 1/2" - 1"

1" - 3/4"

3/4" - 1/2"

1/2" - 3/8"

3/8" - # 4

4 - # 8

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size % Passing # 200 sieve

1 1/2"

1"

3/4"

1/2"

3/8"

4

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
BROX INDUSTRIES - DRACUT

VENDOR NO:
24

SOURCE:
DRACUT QUARRY

LOCATION:
DRACUT, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	94.1	100.0	100.0
1/2"	27.8	97.5	100.0
3/8"	5.6	35.3	97.5
#4	0.9	0.9	32.6
#8	0.8	0.8	2.0

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	100.36
1/2"	
3/8"	98.91

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	15.26

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
BROX INDUSTRIES - DRACUT

VENDOR NO:
24

SOURCE:
DRACUT QUARRY

LOCATION:
DRACUT, MA

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.877	2.886	2.911		
Specific Gravity (S.S.D.):		2.890	2.896	2.918		
Apparent Specific Gravity:		2.915	2.916	2.933		
Absorption:		0.456	0.356	0.256		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.12
1/2" - 3/8"	0.20
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	1.54
1/2"	1.18
3/8"	1.81
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
MORSE SAND and GRAVEL

VENDOR NO:
27

SOURCE:
ATTLEBORO PIT

LOCATION:
ATTLEBORO, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	3/8
2"	#Num!	#Num!
1 1/2"	#Num!	#Num!
1"	#Num!	#Num!
3/4"	#Num!	#Num!
1/2"	#Num!	#Num!
3/8"	#Num!	#Num!
#4	#Num!	#Num!
#8	#Num!	#Num!

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"
1"
3/4"
1/2"
3/8"

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
B	#Num!

Run # 1

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
MORSE SAND and GRAVEL

VENDOR NO:
27

SOURCE:
ATTLEBORO PIT

LOCATION:
ATTLEBORO, MA

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE: # 4 3/8" 1/2" 3/4" 1" 1 1/2"

Bulk Specific Gravity:

Specific Gravity (S.S.D.):

Apparent Specific Gravity:

Absorption:

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE: **% LOSS**

2" - 1 1/2"

1 1/2" - 1"

1" - 3/4"

3/4" - 1/2"

1/2" - 3/8"

3/8" - # 4

4 - # 8

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size **% Passing # 200 sieve**

1 1/2"

1"

3/4"

1/2"

3/8"

4

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
CHERENZIA

VENDOR NO:
29

SOURCE:
OLD HOPKINTON RD. QUARRY

LOCATION:
WESTERLY, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	68.6	100.0	100.0
1/2"	10.5	89.8	100.0
3/8"	2.2	32.8	96.8
#4	0.9	2.7	18.8
#8	0.8	1.9	4.9

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	89.96
1/2"	86.98
3/8"	89.04

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	31.28

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

**VENDOR:
CHERENZIA**

**VENDOR NO:
29**

**SOURCE:
OLD HOPKINTON RD. QUARRY**

**LOCATION:
WESTERLY, RI**

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:	2.539	2.565	2.592			
Specific Gravity (S.S.D.):	2.583	2.597	2.613			
Apparent Specific Gravity:	2.657	2.650	2.648			
Absorption:	1.752	1.248	0.815			

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	1.67
1/2" - 3/8"	4.16
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
SOUTH COUNTY SAND and GRAVEL

VENDOR NO:
31

SOURCE:
CHARLESTOWN PIT

LOCATION:
CHARLESTOWN, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	81.9	100.0	100.0
1/2"	5.5	78.3	100.0
3/8"	1.7	17.2	96.6
#4	1.2	2.0	15.1
#8	1.1	1.6	1.5

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	91.44
1/2"	89.96
3/8"	89.04

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	50.06

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
SOUTH COUNTY SAND and GRAVEL

VENDOR NO:
31

SOURCE:
CHARLESTOWN PIT

LOCATION:
CHARLESTOWN, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.585	2.584	2.588		
Specific Gravity (S.S.D.):		2.609	2.604	2.605		
Apparent Specific Gravity:		2.648	2.638	2.634		
Absorption:		0.925	0.794	0.671		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.03
1/2" - 3/8"	0.07
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	0.58
1/2"	0.47
3/8"	0.31
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
G. LOPES

VENDOR NO:
49

SOURCE:
MIDDLEBORO PIT

LOCATION:
MIDDLEBORO, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	25.7	100.0	100.0
1/2"	3.2	80.4	91.1
3/8"	0.6	32.2	65.1
#4	0.3	3.4	9.9
#8	0.2	1.1	2.3

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	92.93
1/2"	95.90
3/8"	89.04

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

	LA TYPE	LA RESULT
Run # 1	B	29.14

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
G. LOPES

VENDOR NO:
49

SOURCE:
MIDDLEBORO PIT

LOCATION:
MIDDLEBORO, MA

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.608	2.612	2.636		
Specific Gravity (S.S.D.):		2.627	2.633	2.652		
Apparent Specific Gravity:		2.658	2.668	2.679		
Absorption:		0.711	0.805	0.615		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.65
1/2" - 3/8"	0.23
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	0.80
1/2"	0.56
3/8"	0.60
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
WILLIAM E. DAILEY, INC.

VENDOR NO:
53

SOURCE:
SHAFTESBURY, VT

LOCATION:
SHAFTESBURY, VT

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4
2"	100.0
1 1/2"	100.0
1"	100.0
3/4"	99.7
1/2"	68.8
3/8"	36.7
#4	3.0
#8	1.2

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	100.36
1/2"	
3/8"	

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

	LA TYPE	LA RESULT
Run # 1	B	27.83

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
WILLIAM E. DAILEY, INC.

VENDOR NO:
53

SOURCE:
SHAFTESBURY, VT

LOCATION:
SHAFTESBURY, VT

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:				2.720		
Specific Gravity (S.S.D.):				2.736		
Apparent Specific Gravity:				2.764		
Absorption:				0.582		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.05
1/2" - 3/8"	0.06
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	1.32
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
CHERENZIA-WHITE ROCK

VENDOR NO:
58

SOURCE:
WHITE ROCK QUARRY

LOCATION:
WESTERLY, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	89.2	100.0	100.0
1/2"	9.4	78.0	100.0
3/8"	5.0	28.3	87.5
#4	2.8	3.8	10.8
#8	2.1	2.3	2.1

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	97.38
1/2"	91.44
3/8"	89.04

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

	LA TYPE	LA RESULT
Run # 1	B	42.50

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
CHERENZIA-WHITE ROCK

VENDOR NO:
58

SOURCE:
WHITE ROCK QUARRY

LOCATION:
WESTERLY, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:	2.608	2.619	2.634			
Specific Gravity (S.S.D.):	2.627	2.635	2.648			
Apparent Specific Gravity:	2.658	2.661	2.671			
Absorption:	0.728	0.610	0.519			

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.09
1/2" - 3/8"	0.13
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	1.54
1/2"	0.83
3/8"	0.68
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
RAVEN CONSTRUCTION

VENDOR NO:
60

SOURCE:

LOCATION:
COVENTRY, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4
2"	#Num!
1 1/2"	#Num!
1"	#Num!
3/4"	#Num!
1/2"	#Num!
3/8"	#Num!
#4	#Num!
#8	#Num!

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"
1"
3/4"
1/2"
3/8"

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE LA RESULT

Run # 1 B

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
RAVEN CONSTRUCTION

VENDOR NO:
60

SOURCE:

LOCATION:
COVENTRY, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE: # 4 3/8" 1/2" 3/4" 1" 1 1/2"

Bulk Specific Gravity:

Specific Gravity (S.S.D.):

Apparent Specific Gravity:

Absorption:

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE: **% LOSS**

2" - 1 1/2"

1 1/2" - 1"

1" - 3/4"

3/4" - 1/2"

1/2" - 3/8"

3/8" - # 4

4 - # 8

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size **% Passing # 200 sieve**

1 1/2"

1"

3/4"

1/2"

3/8"

4

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

**VENDOR:
DYRE**

**VENDOR NO:
61**

**SOURCE:
DYRE QUARRY**

**LOCATION:
BIRDSBORO, PA**

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4
2"	100.0
1 1/2"	100.0
1"	100.0
3/4"	92.4
1/2"	85.6
3/8"	41.4
#4	4.4
#8	2.3

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	104.81
1/2"	
3/8"	

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	15.44

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

**VENDOR:
DYRE**

**VENDOR NO:
61**

**SOURCE:
DYRE QUARRY**

**LOCATION:
BIRDSBORO, PA**

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:				2.930		
Specific Gravity (S.S.D.):				2.946		
Apparent Specific Gravity:				2.977		
Absorption:				0.542		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.21
1/2" - 3/8"	0.31
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	0.55
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

**VENDOR:
CARDI CORP.**

**VENDOR NO:
66**

**SOURCE:
Hopkins Hill Road**

**LOCATION:
Coventry, RI**

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	100.0	100.0	100.0
1/2"	33.2	89.7	100.0
3/8"	9.1	42.3	94.6
#4	3.2	11.7	33.7
#8	2.8	7.1	12.1

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	97.38
1/2"	101.84
3/8"	103.85

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

	LA TYPE	LA RESULT
Run # 1	B	38.03

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
CARDI CORP.

VENDOR NO:
66

SOURCE:
Hopkins Hill Road

LOCATION:
Coventry, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.608	2.608	2.611		
Specific Gravity (S.S.D.):		2.624	2.620	2.623		
Apparent Specific Gravity:		2.649	2.640	2.641		
Absorption:		0.598	0.463	0.428		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	
1/2" - 3/8"	
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	1.11
1/2"	1.47
3/8"	2.47
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
CUMBERLAND QUARRY CORP.

VENDOR NO:
68

SOURCE:
MANVILLE HILL ROAD

LOCATION:
CUMBERLAND, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	100.0	100.0	100.0
1/2"	47.4	76.2	100.0
3/8"	15.5	29.4	94.8
#4	1.1	0.8	21.6
#8	0.7	0.5	2.2

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	94.41
1/2"	91.44
3/8"	89.04

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	21.12

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
CUMBERLAND QUARRY CORP.

VENDOR NO:
68

SOURCE:
MANVILLE HILL ROAD

LOCATION:
CUMBERLAND, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.720	2.754	2.789		
Specific Gravity (S.S.D.):		2.746	2.769	2.806		
Apparent Specific Gravity:		2.793	2.796	2.837		
Absorption:		0.959	0.545	0.607		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.21
1/2" - 3/8"	0.23
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
Continental Paving

VENDOR NO:
69

SOURCE:
NH

LOCATION:
NH

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2
2"	100.0	100.0
1 1/2"	100.0	100.0
1"	100.0	100.0
3/4"	97.8	100.0
1/2"	31.1	94.4
3/8"	6.7	40.4
#4	1.1	1.6
#8	0.7	0.9

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	92.93
1/2"	92.93
3/8"	

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	18.13

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
Continental Paving

VENDOR NO:
69

SOURCE:
NH

LOCATION:
NH

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:			2.709	2.718		
Specific Gravity (S.S.D.):			2.725	2.731		
Apparent Specific Gravity:			2.751	2.755		
Absorption:			0.562	0.484		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	
1/2" - 3/8"	
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
BENEVENTO QUARRY

VENDOR NO:
70

SOURCE:
READING, MA.

LOCATION:
READING, MA.

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4
2"	100.0
1 1/2"	100.0
1"	100.0
3/4"	100.0
1/2"	77.1
3/8"	24.2
#4	1.5
#8	1.1

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"
1"
3/4"
1/2"
3/8"

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

Run # 1	LA TYPE	LA RESULT
	B	20.74

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
BENEVENTO QUARRY

VENDOR NO:
70

SOURCE:
READING, MA.

LOCATION:
READING, MA.

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:				2.733		
Specific Gravity (S.S.D.):				2.746		
Apparent Specific Gravity:				2.769		
Absorption:				0.477		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	
1/2" - 3/8"	
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
T.L. EDWARDS

VENDOR NO:
71

SOURCE:
PLYMOUTH, MA

LOCATION:

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	3/8
2"	100.0	100.0
1 1/2"	100.0	100.0
1"	100.0	100.0
3/4"	98.7	100.0
1/2"	72.3	100.0
3/8"	33.5	97.5
#4	1.1	8.4
#8	0.8	1.1

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	94.41
1/2"	
3/8"	93.98

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	27.30

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
T.L. EDWARDS

VENDOR NO:
71

SOURCE:
PLYMOUTH, MA

LOCATION:

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.610		2.615		
Specific Gravity (S.S.D.):		2.635		2.638		
Apparent Specific Gravity:		2.677		2.676		
Absorption:		0.957		0.873		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.16
1/2" - 3/8"	0.39
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	1.01
1/2"	
3/8"	0.56
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
BIRDSBORO MATERIALS

VENDOR NO:
73

SOURCE:
BIRDSBORO PA

LOCATION:

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4
2"	100.0
1 1/2"	100.0
1"	100.0
3/4"	99.4
1/2"	63.7
3/8"	30.9
#4	4.9
#8	2.5

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	109.27
1/2"	
3/8"	

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE LA RESULT

Run # 1 B 16.00

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
BIRDSBORO MATERIALS

VENDOR NO:
73

SOURCE:
BIRDSBORO PA

LOCATION:

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:				2.971		
Specific Gravity (S.S.D.):				2.985		
Apparent Specific Gravity:				3.013		
Absorption:				0.472		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.25
1/2" - 3/8"	0.37
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	1.69
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
AIRPORT S & G

VENDOR NO:
75

SOURCE:
COVENTRY, RI

LOCATION:
COVENTRY

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	95.1	100.0	100.0
1/2"	5.9	60.7	99.9
3/8"	2.0	6.5	93.0
#4	1.2	1.4	23.8
#8	1.0	1.1	3.6

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	91.44
1/2"	91.44
3/8"	93.98

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	34.31

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
AIRPORT S & G

VENDOR NO:
75

SOURCE:
COVENTRY, RI

LOCATION:
COVENTRY

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:	2.581	2.591	2.591	2.599		
Specific Gravity (S.S.D.):	2.604	2.610	2.610	2.617		
Apparent Specific Gravity:	2.642	2.642	2.642	2.647		
Absorption:	0.901	0.737	0.737	0.699		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.01
1/2" - 3/8"	0.16
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
MORRONE TRUCKING

VENDOR NO:
76

SOURCE:
CAROLINA PIT

LOCATION:
CHARLESTOWN, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	99.5	100.0	100.0
3/4"	70.2	100.0	100.0
1/2"	5.0	77.9	100.0
3/8"	1.9	42.2	97.9
#4	1.4	4.0	28.5
#8	1.2	1.6	15.8

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	88.47
1/2"	88.47
3/8"	98.91

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	53.06

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2012**

VENDOR:
MORRONE TRUCKING

VENDOR NO:
76

SOURCE:
CAROLINA PIT

LOCATION:
CHARLESTOWN, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:	2.582	2.588	2.590			
Specific Gravity (S.S.D.):	2.604	2.607	2.606			
Apparent Specific Gravity:	2.642	2.639	2.633			
Absorption:	0.883	0.734	0.634			

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	
1/2" - 3/8"	
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	