

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
AGGREGATE INDUSTRIES

VENDOR NO:
1

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"	88.6	100.0	100.0
1/2"	13.0	80.5	99.8
3/8"	2.9	18.6	97.5
#4	1.4	1.7	52.4
#8	1.3	1.5	5.8

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

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

1 1/2"	
1"	
3/4"	95.04
1/2"	93.55
3/8"	95.06

**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
	20.45

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
AGGREGATE INDUSTRIES

VENDOR NO:
1

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:	2.657	2.663	2.659			
Specific Gravity (S.S.D.):	2.674	2.675	2.668			
Apparent Specific Gravity:	2.702	2.695	2.684			
Absorption:	0.628	0.452	0.340			

**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"	0.02
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"	0.93
1/2"	0.95
3/8"	1.35
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	90.0	100.0	100.0
1/2"	19.3	97.6	100.0
3/8"	2.6	33.0	99.1
#4	0.8	2.2	23.2
#8	0.7	1.3	2.3

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

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

1 1/2"	
1"	
3/4"	93.55
1/2"	92.07
3/8"	90.13

**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 13.88

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:		2.726	2.699	2.766		
Specific Gravity (S.S.D.):		2.741	2.715	2.774		
Apparent Specific Gravity:		2.768	2.743	2.788		
Absorption:		0.554	0.594	0.281		

**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"	0.10
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"	1.77
3/8"	1.62
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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"	77.9	100.0	100.0
1/2"	16.1	88.0	100.0
3/8"	4.6	29.6	98.8
#4	1.7	2.4	29.7
#8	1.4	1.7	4.3

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

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

1 1/2"	
1"	
3/4"	103.95
1/2"	98.01
3/8"	100.00

**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
	13.35

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:		2.754	2.778	2.845		
Specific Gravity (S.S.D.):		2.770	2.789	2.854		
Apparent Specific Gravity:		2.798	2.808	2.871		
Absorption:		0.569	0.384	0.315		

**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"	0.61
1/2" - 3/8"	0.58
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"	2.15
1/2"	1.54
3/8"	2.98
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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"	100.0	100.0	100.0
3/4"	88.6	100.0	100.0
1/2"	13.9	84.0	99.9
3/8"	2.9	24.7	94.1
#4	1.2	2.9	26.5
#8	1.0	2.1	6.4

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

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

1 1/2"	
1"	
3/4"	99.49
1/2"	98.01
3/8"	100.00

**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	25.68

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:		2.732	2.702	2.867		
Specific Gravity (S.S.D.):		2.748	2.716	2.880		
Apparent Specific Gravity:		2.778	2.740	2.904		
Absorption:		0.606	0.519	0.447		

**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"	0.27
1/2" - 3/8"	0.33
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"	1.13
1/2"	1.90
3/8"	2.12
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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"	99.8	100.0	100.0
3/4"	92.1	100.0	100.0
1/2"	28.9	98.5	98.6
3/8"	7.8	65.2	81.4
#4	1.6	1.9	22.5
#8	1.3	1.3	4.6

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

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

1 1/2"	
1"	
3/4"	98.01
1/2"	96.52
3/8"	100.00

**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	32.40

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:		2.609	2.620	2.621		
Specific Gravity (S.S.D.):		2.636	2.644	2.640		
Apparent Specific Gravity:		2.680	2.684	2.673		
Absorption:		1.017	0.904	0.749		

**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"	0.20
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"	0.42
1/2"	0.62
3/8"	0.82
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	89.1	100.0	100.0
1/2"	20.3	95.1	100.0
3/8"	3.2	38.6	98.8
#4	1.1	2.2	21.8
#8	1.0	1.4	3.9

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

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

1 1/2"	
1"	
3/4"	96.52
1/2"	99.49
3/8"	100.00

**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
	21.93

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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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:	2.711	2.827	2.744			
Specific Gravity (S.S.D.):	2.728	2.842	2.756			
Apparent Specific Gravity:	2.759	2.870	2.778			
Absorption:	0.641	0.535	0.442			

**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"	1.31
1/2" - 3/8"	0.62
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"	0.95
1/2"	1.45
3/8"	1.63
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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	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"	93.5	100.0	100.0
1/2"	7.4	69.6	100.0
3/8"	2.8	7.2	96.2
#4	1.4	1.8	14.3
#8	1.2	1.5	2.2

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

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

1 1/2"	
1"	
3/4"	99.49
1/2"	98.01
3/8"	95.06

**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	31.62

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:		2.640	2.627	2.632		
Specific Gravity (S.S.D.):		2.670	2.651	2.657		
Apparent Specific Gravity:		2.723	2.693	2.698		
Absorption:		1.156	0.944	0.920		

**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"	0.63
1/2" - 3/8"	2.18
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"	0.81
1/2"	0.83
3/8"	0.90
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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"	93.5	99.4	100.0
1/2"	19.3	63.7	99.9
3/8"	3.8	24.9	95.2
#4	1.7	5.5	26.7
#8	1.6	3.4	4.7

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

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

1 1/2"	
1"	
3/4"	98.01
1/2"	93.55
3/8"	95.06

**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	24.78

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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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:		2.673	2.669	2.684		
Specific Gravity (S.S.D.):		2.688	2.685	2.695		
Apparent Specific Gravity:		2.715	2.712	2.714		
Absorption:		0.573	0.592	0.414		

**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"	0.13
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"	4.32
1/2"	1.12
3/8"	1.94
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	97.6	100.0	100.0
1/2"	19.4	91.3	100.0
3/8"	4.0	33.1	99.2
#4	1.6	2.3	18.6
#8	1.3	1.4	3.3

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

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

1 1/2"	
1"	
3/4"	90.58
1/2"	92.07
3/8"	90.13

**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 38.12

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:		2.575	2.577	2.571		
Specific Gravity (S.S.D.):		2.602	2.602	2.596		
Apparent Specific Gravity:		2.646	2.642	2.637		
Absorption:		1.043	0.947	0.984		

**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"	0.95
1/2" - 3/8"	1.13
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"	0.84
1/2"	0.71
3/8"	0.89
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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"	96.5	100.0	100.0
1/2"	37.9	96.2	99.9
3/8"	10.6	41.4	97.8
#4	1.8	2.6	35.8
#8	1.5	1.6	4.0

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

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

1 1/2"	
1"	
3/4"	102.47
1/2"	102.47
3/8"	104.94

**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
	14.51

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:	2.853	2.853	2.853	2.895		
Specific Gravity (S.S.D.):	2.867	2.864	2.864	2.903		
Apparent Specific Gravity:	2.892	2.883	2.883	2.919		
Absorption:	0.473	0.365	0.365	0.293		

**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"	0.15
1/2" - 3/8"	0.30
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"	1.62
1/2"	1.48
3/8"	1.91
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
ATTLEBORO SAND & 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"	100.0	100.0
1 1/2"	100.0	100.0
1"	100.0	100.0
3/4"	88.0	100.0
1/2"	35.2	100.0
3/8"	7.6	93.0
#4	1.6	14.9
#8	1.2	1.3

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

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

1 1/2"	
1"	
3/4"	96.52
1/2"	
3/8"	90.13

**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
	19.30

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
ATTLEBORO SAND & 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:		2.712		2.693		
Specific Gravity (S.S.D.):		2.730		2.706		
Apparent Specific Gravity:		2.761		2.728		
Absorption:		0.652		0.476		

**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"	0.14
1/2" - 3/8"	0.15
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"	0.77
1/2"	
3/8"	0.88
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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"	97.7	100.0	100.0
1/2"	31.3	93.7	100.0
3/8"	9.2	49.9	99.4
#4	1.9	3.7	16.8
#8	1.5	2.0	2.0

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

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

1 1/2"	
1"	
3/4"	93.55
1/2"	92.07
3/8"	90.13

**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	35.08

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:		2.620	2.624	2.629		
Specific Gravity (S.S.D.):		2.635	2.637	2.641		
Apparent Specific Gravity:		2.661	2.658	2.661		
Absorption:		0.596	0.485	0.455		

**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"	0.68
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"	0.38
3/8"	0.26
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
SOUTH COUNTY S & G

VENDOR NO:
31

SOURCE:
CHARLESTON PIT

LOCATION:
CHARLESTON, 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"	84.3	100.0	100.0
1/2"	9.0	78.5	100.0
3/8"	3.0	14.8	94.8
#4	1.9	1.7	24.2
#8	1.7	1.4	2.7

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

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

1 1/2"	
1"	
3/4"	96.52
1/2"	93.55
3/8"	95.06

**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	48.39

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
SOUTH COUNTY S & G

VENDOR NO:
31

SOURCE:
CHARLESTON PIT

LOCATION:
CHARLESTON, 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:		2.571	2.580	2.585		
Specific Gravity (S.S.D.):		2.596	2.602	2.605		
Apparent Specific Gravity:		2.637	2.638	2.638		
Absorption:		0.974	0.847	0.777		

**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"	0.63
1/2" - 3/8"	1.19
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"	0.44
3/8"	0.37
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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"	81.3	100.0	99.2
1/2"	9.9	86.3	82.8
3/8"	1.7	33.3	45.0
#4	0.9	1.1	3.0
#8	0.8	0.5	1.2

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

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

1 1/2"	
1"	
3/4"	92.07
1/2"	93.55
3/8"	95.06

**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	26.86

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:	2.624	2.610	2.638			
Specific Gravity (S.S.D.):	2.648	2.636	2.657			
Apparent Specific Gravity:	2.688	2.679	2.689			
Absorption:	0.902	0.978	0.723			

**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"	1.95
1/2" - 3/8"	1.21
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"	0.82
1/2"	0.37
3/8"	0.76
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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	3/8
2"	100.0	100.0
1 1/2"	100.0	100.0
1"	100.0	100.0
3/4"	99.6	99.9
1/2"	76.2	99.8
3/8"	51.8	99.7
#4	11.3	13.9
#8	3.7	1.4

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

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

1 1/2"	
1"	
3/4"	103.95
1/2"	
3/8"	100.00

**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	29.32

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:		2.702		2.713		
Specific Gravity (S.S.D.):		2.723		2.731		
Apparent Specific Gravity:		2.761		2.762		
Absorption:		0.799		0.659		

**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"	0.24
1/2" - 3/8"	0.27
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"	2.03
1/2"	
3/8"	0.99
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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"	96.0	100.0	100.0
1/2"	25.8	89.2	100.0
3/8"	7.2	44.5	99.1
#4	2.2	3.4	37.9
#8	1.8	2.0	6.8

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

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

1 1/2"	
1"	
3/4"	93.55
1/2"	93.55
3/8"	95.06

**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	43.63

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:	2.603	2.603	2.603	2.604		
Specific Gravity (S.S.D.):	2.622	2.621	2.622			
Apparent Specific Gravity:	2.655	2.650	2.651			
Absorption:	0.750	0.693	0.679			

**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"	0.29
1/2" - 3/8"	1.39
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"	1.02
1/2"	0.45
3/8"	0.72
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

**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"	94.8
1/2"	53.4
3/8"	25.6
#4	4.7
#8	2.1

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

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

1 1/2"	
1"	
3/4"	109.90
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
	15.52

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

**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:				2.929		
Specific Gravity (S.S.D.):				2.941		
Apparent Specific Gravity:				2.965		
Absorption:				0.415		

**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"	0.28
1/2" - 3/8"	1.24
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"	0.98
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

**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"	99.8	100.0	100.0
1/2"	42.4	80.8	99.8
3/8"	12.5	17.9	87.4
#4	2.8	1.4	19.6
#8	2.0	0.9	4.2

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

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

1 1/2"	
1"	
3/4"	96.52
1/2"	92.07
3/8"	95.06

**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
	39.65

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:		2.598	2.605	2.605		
Specific Gravity (S.S.D.):		2.616	2.620	2.618		
Apparent Specific Gravity:		2.645	2.644	2.640		
Absorption:		0.674	0.558	0.505		

**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"	0.36
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"	0.82
1/2"	0.34
3/8"	0.79
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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"	98.5	100.0	100.0
1/2"	19.7	95.4	99.9
3/8"	2.0	21.1	96.5
#4	0.9	1.3	15.4
#8	0.8	0.9	1.7

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

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

1 1/2"	
1"	
3/4"	95.04
1/2"	95.04
3/8"	95.06

**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
	21.95

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:		2.794	2.739	2.821		
Specific Gravity (S.S.D.):		2.811	2.754	2.834		
Apparent Specific Gravity:		2.844	2.781	2.857		
Absorption:		0.627	0.550	0.443		

**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"	0.28
1/2" - 3/8"	0.79
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"	1.13
1/2"	0.66
3/8"	0.85
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
Continental Paving

VENDOR NO:
69

SOURCE:
NH

LOCATION:
NH

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

Nominal Aggregate Size

% Passing	1/2
2"	100.0
1 1/2"	100.0
1"	100.0
3/4"	100.0
1/2"	93.7
3/8"	36.4
#4	1.6
#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"	98.01
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 16.37

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

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:			2.718			
Specific Gravity (S.S.D.):			2.731			
Apparent Specific Gravity:			2.755			
Absorption:			0.502			

**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"	0.28
1/2" - 3/8"	1.18
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"	1.87
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
T.L. EDWARDS

VENDOR NO:
71

SOURCE:
PLYMOUTH, MA

LOCATION:
PLYMOUTH, MA

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

Nominal Aggregate Size

% Passing	1/2	3/8	0	0
2"	100.0	100.0	#Num!	#Num!
1 1/2"	100.0	100.0	#Num!	#Num!
1"	100.0	100.0	#Num!	#Num!
3/4"	97.6	100.0	#Num!	#Num!
1/2"	47.6	99.9	#Num!	#Num!
3/8"	15.0	96.0	#Num!	#Num!
#4	1.1	13.8	#Num!	#Num!
#8	0.9	5.1	#Num!	#Num!

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

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

1 1/2"	
1"	
3/4"	93.55
1/2"	93.55
3/8"	95.06

**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	31.58

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
T.L. EDWARDS

VENDOR NO:
71

SOURCE:
PLMOUTH, MA

LOCATION:
PLYMOUTH, 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" 0.68

1/2" - 3/8" 1.44

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 - 2011**

VENDOR:
VULCAN

VENDOR NO:
72

SOURCE:
JACK QUARRY

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"	93.2
1/2"	56.6
3/8"	32.5
#4	7.1
#8	1.7

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

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

1 1/2"	
1"	
3/4"	98.01
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
	24.02

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
VULCAN

VENDOR NO:
72

SOURCE:
JACK QUARRY

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:				2.630		
Specific Gravity (S.S.D.):				2.641		
Apparent Specific Gravity:				2.661		
Absorption:				0.453		

**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"	0.10
1/2" - 3/8"	0.41
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"	0.67
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
J R SLAW

VENDOR NO:
73

SOURCE:
BIRDSBORROW

LOCATION:
LEHIGNTON, PA

**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"	85.8	100.0
1/2"	26.2	99.8
3/8"	6.7	91.8
#4	1.4	20.8
#8	1.1	4.4

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

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

1 1/2"	
1"	
3/4"	106.92
1/2"	
3/8"	109.87

**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
	19.33

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
J R SLAW

VENDOR NO:
73

SOURCE:
BIRDSBORROW

LOCATION:
LEHIGNTON, 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:		2.977		2.972		
Specific Gravity (S.S.D.):		2.991		2.984		
Apparent Specific Gravity:		3.020		3.007		
Absorption:		0.470		0.386		

**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"	0.14
1/2" - 3/8"	0.30
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"	0.97
1/2"	
3/8"	1.94
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
COPAR QUARRIES

VENDOR NO:
74

SOURCE:

LOCATION:
BRADFORD, 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"	82.3	100.0	100.0
1/2"	10.2	83.9	99.7
3/8"	1.4	11.8	72.4
#4	0.9	1.4	2.3
#8	0.8	1.1	1.7

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

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

1 1/2"	
1"	
3/4"	92.07
1/2"	92.07
3/8"	95.06

**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
	37.10

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2011**

VENDOR:
COPAR QUARRIES

VENDOR NO:
74

SOURCE:

LOCATION:
BRADFORD, 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:		2.643	2.630	2.631		
Specific Gravity (S.S.D.):		2.659	2.645	2.644		
Apparent Specific Gravity:		2.686	2.670	2.667		
Absorption:		0.607	0.582	0.505		

**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"	0.06
1/2" - 3/8"	0.11
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"	0.51
1/2"	0.45
3/8"	0.62
# 4	