

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

MATERIALS SECTION

COARSE AGGREGATE RESULTS – 2014

INDEX

VENDOR NUMBER	VENDOR AND SOURCE	
6	JH Lynch	First St. Quarry
9	PJ Keatings	Phenix Avenue Quarry
12	Materials S & S	Mountain Dale Road Quarry
13	Dry Bridge S & S	Slocum Pit
17	Lynch – Tiverton	Fish Road Quarry
21	PJ Keatings	South Main St. Quarry
24	Brox Ind. – Dracut	Dracut Quarry
29	Cherenzia	Old Hopkinton Road
31	South County S & G	Charlestown Pit
49	G. Lopes	Middleboro Pit
58	Cherenzia – White Rock	White Rock Quarry
66	Cardi Corp.	Hopkins Hill Road
68	Cumberland Quarry	Manville Hill Road

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
J.H. LYNCH

LAB NUMBER :
20140006

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"	98.8	100.0	100.0
1/2"	12.6	84.5	100.0
3/8"	3.2	28.5	98.0
#4	1.2	3.1	23.1
#8	1.0	1.9	1.2

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

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

1 1/2"	
1"	
3/4"	103.33
1/2"	98.87
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 14.90

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
J.H. LYNCH

LAB NUMBER :
20140006

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:	2.893	2.812	2.967			
Specific Gravity (S.S.D.):	2.905	2.823	2.974			
Apparent Specific Gravity:	2.929	2.841	2.987			
Absorption:	0.423	0.357	0.224			

**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"	0.04
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"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
PJ KEATING

LAB NUMBER :
20140009

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"	93.6	99.9	100.0
1/2"	24.6	95.7	99.8
3/8"	8.4	71.7	87.6
#4	2.7	13.9	19.7
#8	2.0	3.5	5.2

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

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

1 1/2"	
1"	
3/4"	100.36
1/2"	100.36
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
B	27.46

Run # 1

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
PJ KEATING

LAB NUMBER :
20140009

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:	2.851	2.756	2.804			
Specific Gravity (S.S.D.):	2.869	2.770	2.815			
Apparent Specific Gravity:	2.902	2.795	2.835			
Absorption:	0.612	0.508	0.384			

**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"	0.84
1/2" - 3/8"	0.42
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 SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
MATERIALS S and S

LAB NUMBER :
20140012

SOURCE:
MOUNTAINDALE RD. QUARRY

LOCATION:
SMITHFIELD, RI

**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"	73.7	100.0
1/2"	10.3	100.0
3/8"	2.1	97.7
#4	0.8	32.3
#8	0.7	5.6

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

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

1 1/2"	
1"	
3/4"	88.47
1/2"	
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 31.11

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
MATERIALS S and S

LAB NUMBER :
20140012

SOURCE:
MOUNTAINDALE RD. QUARRY

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:		2.598		2.609		
Specific Gravity (S.S.D.):		2.621		2.623		
Apparent Specific Gravity:		2.660		2.647		
Absorption:		0.897		0.563		

**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"	0.18
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"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
DRY BRIDGE S and S

LAB NUMBER :
20140013

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"	100.0	100.0	100.0
3/4"	89.5	100.0	100.0
1/2"	18.8	87.9	100.0
3/8"	5.7	31.3	96.0
#4	1.6	3.8	27.2
#8	1.2	2.2	2.2

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

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

1 1/2"	
1"	
3/4"	91.44
1/2"	92.93
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
B	38.22

Run # 1

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
DRY BRIDGE S and S

LAB NUMBER :
20140013

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:		2.605	2.611	2.620		
Specific Gravity (S.S.D.):		2.629	2.631	2.639		
Apparent Specific Gravity:		2.668	2.665	2.671		
Absorption:		0.910	0.784	0.729		

**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"	3.03
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 SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
LYNCH - TIVERTON

LAB NUMBER :
20140017

SOURCE:
FISH ROAD QUARRY

LOCATION:
TIVERTON, 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"	99.1	100.0	100.0
1/2"	24.4	83.3	100.0
3/8"	6.3	26.2	96.1
#4	1.8	4.3	25.8
#8	1.4	2.5	0.5

**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

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
LYNCH - TIVERTON

LAB NUMBER :
20140017

SOURCE:
FISH ROAD QUARRY

LOCATION:
TIVERTON, 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	2.619	2.625		
Specific Gravity (S.S.D.):		2.630	2.633	2.637		
Apparent Specific Gravity:		2.657	2.656	2.658		
Absorption:		0.639	0.524	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"	0.06
1/2" - 3/8"	0.03
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 SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
PJ KEATING

LAB NUMBER :
20140021

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"	95.2	100.0	100.0
1/2"	23.0	91.2	99.8
3/8"	3.2	35.7	88.3
#4	1.2	4.9	15.4
#8	1.1	2.2	3.3

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

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

1 1/2"	
1"	
3/4"	98.87
1/2"	98.87
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 26.13

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
PJ KEATING

LAB NUMBER :
20140021

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:		2.783	2.718	2.826		
Specific Gravity (S.S.D.):		2.803	2.735	2.838		
Apparent Specific Gravity:		2.837	2.765	2.861		
Absorption:		0.683	0.618	0.437		

**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"	0.15
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"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
BROX IND. - DRACUT

LAB NUMBER :
20140024

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"	98.6	100.0	100.0
1/2"	35.2	87.1	100.0
3/8"	9.3	24.8	97.3
#4	2.1	0.8	38.9
#8	1.4	0.7	2.8

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

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

1 1/2"	
1"	
3/4"	103.33
1/2"	100.36
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 15.44

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
BROX IND. - DRACUT

LAB NUMBER :
20140024

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:	2.891	2.859	2.916			
Specific Gravity (S.S.D.):	2.905	2.873	2.924			
Apparent Specific Gravity:	2.932	2.900	2.940			
Absorption:	0.474	0.485	0.289			

**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"	0.15
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"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
CHERENZIA

LAB NUMBER :
20140029

SOURCE:
OLD HOPKINTON RD.

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"	99.2	100.0	100.0
1/2"	26.3	85.4	100.0
3/8"	4.9	33.3	99.0
#4	1.4	3.4	53.6
#8	1.1	2.1	4.2

**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"	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 36.95

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
CHERENZIA

LAB NUMBER :
20140029

SOURCE:
OLD HOPKINTON RD.

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:		2.642	2.628	2.634		
Specific Gravity (S.S.D.):		2.658	2.640	2.645		
Apparent Specific Gravity:		2.686	2.659	2.663		
Absorption:		0.627	0.454	0.406		

**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"	0.09
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 SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
SOUTH COUNTY S and G

LAB NUMBER :
20140031

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	1 1/2
2"	100.0	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0	100.0
1"	99.0	100.0	100.0	44.9
3/4"	71.4	100.0	100.0	13.2
1/2"	11.6	74.0	100.0	8.0
3/8"	4.0	15.8	97.6	5.7
#4	2.2	2.0	29.3	3.6
#8	1.9	1.5	2.6	1.8

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

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

1 1/2"	
1"	
3/4"	95.90
1/2"	91.44
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
	49.61

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
SOUTH COUNTY S and G

LAB NUMBER :
20140031

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:		2.574	2.580	2.585		
Specific Gravity (S.S.D.):		2.597	2.601	2.605		
Apparent Specific Gravity:		2.635	2.637	2.638		
Absorption:		0.899	0.832	0.786		

**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"	0.99
1/2" - 3/8"	3.36
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"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
G. LOPES

LAB NUMBER :
20140049

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"	97.3	100.0	100.0
1/2"	35.8	96.0	98.2
3/8"	6.1	65.1	81.6
#4	1.8	9.4	19.0
#8	1.5	1.7	1.8

**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"	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
	33.25

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
G. LOPES

LAB NUMBER :
20140049

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:		2.638	2.632	2.660		
Specific Gravity (S.S.D.):		2.664	2.657	2.680		
Apparent Specific Gravity:		2.710	2.700	2.715		
Absorption:		1.012	0.954	0.762		

**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"	0.57
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 SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
CHERENZIA-WHITE ROCK

LAB NUMBER :
20140058

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"	87.3	100.0	100.0
1/2"	7.9	67.1	99.6
3/8"	2.4	15.6	94.9
#4	1.4	1.0	23.5
#8	1.2	0.9	3.4

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

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

1 1/2"	
1"	
3/4"	94.41
1/2"	94.41
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 37.58

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
CHERENZIA-WHITE ROCK

LAB NUMBER :
20140058

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:	2.600	2.606	2.612			
Specific Gravity (S.S.D.):	2.616	2.619	2.628			
Apparent Specific Gravity:	2.643	2.640	2.654			
Absorption:	0.639	0.488	0.603			

**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"	1.05
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 SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
CARDI CORP.

LAB NUMBER :
20140066

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"	98.8	100.0	100.0
1/2"	9.6	69.1	99.6
3/8"	2.2	15.9	86.3
#4	1.1	1.6	14.5
#8	0.7	1.2	1.9

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

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

1 1/2"	
1"	
3/4"	92.93
1/2"	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 36.62

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
CARDI CORP.

LAB NUMBER :
20140066

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:	2.605	2.611	2.610			
Specific Gravity (S.S.D.):	2.620	2.624	2.621			
Apparent Specific Gravity:	2.646	2.645	2.639			
Absorption:	0.600	0.502	0.417			

**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"	0.75
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 SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
CUMBERLAND QUARRY .

LAB NUMBER :
20140068

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"	99.0	100.0	100.0
1/2"	20.7	90.8	100.0
3/8"	4.0	17.9	92.8
#4	1.4	1.8	22.0
#8	1.2	1.2	3.8

**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"	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 29.82

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS SECTION
COARSE AGGREGATE RESULTS - 2014**

VENDOR:
CUMBERLAND QUARRY .

LAB NUMBER :
20140068

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:		2.735	2.711	2.716		
Specific Gravity (S.S.D.):		2.753	2.725	2.729		
Apparent Specific Gravity:		2.786	2.750	2.751		
Absorption:		0.669	0.516	0.464		

**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"	0.24
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"	
1/2"	
3/8"	
# 4	