



# NEVILLE AGGREGATES CO. INC.

*Construction Aggregate Supplier*

3501 Neville Road Pittsburgh, PA 15225

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February 2, 2016

PaDOT Ref. #: NLSOHA14  
Material Type: C2A Limestone

To Whom It May Concern:

This letter is to verify that Neville Aggregates, Glenwood PA, is an agent for National Lime and Stone Company, Carey OH. National Lime and Stone Company produces the material provided for your use, in accordance to the requirements of PaDOT Publication 408, Section 703 for coarse aggregate.

Sincerely,

Justin T. Bryan

David T. Giehl

# Quality Test Report

BMG Research & Development Center

3507 Neville Road, Pittsburgh PA 15225



CONCRETE PRECAST AGGREGATE MARINE

**Plant** Neville Aggregates - Glenwood Terminal  
**Product** 2A Limestone  
**Source** National Lime & Stone - NLSOHA14  
**Specification** PaDOT 408 Section 703

## Sample Information

<b>Sample No</b>	Average	<b>Weather</b>	-
<b>Start Date</b>	4/12/15	<b>Temp</b>	-
<b>Finish Date</b>	12/21/15	<b>Split Sample</b>	<input type="checkbox"/>
<b>Sampled By</b>	David Giehll	<b>Resample</b>	<input type="checkbox"/>
<b>Tested By</b>	David Giehll	<b>Lot/Sublot</b>	-
<b>Type</b>	Production Sample	<b>Quantity</b>	50 lbs
<b>Method</b>	Stockpile		

## Gradation Results

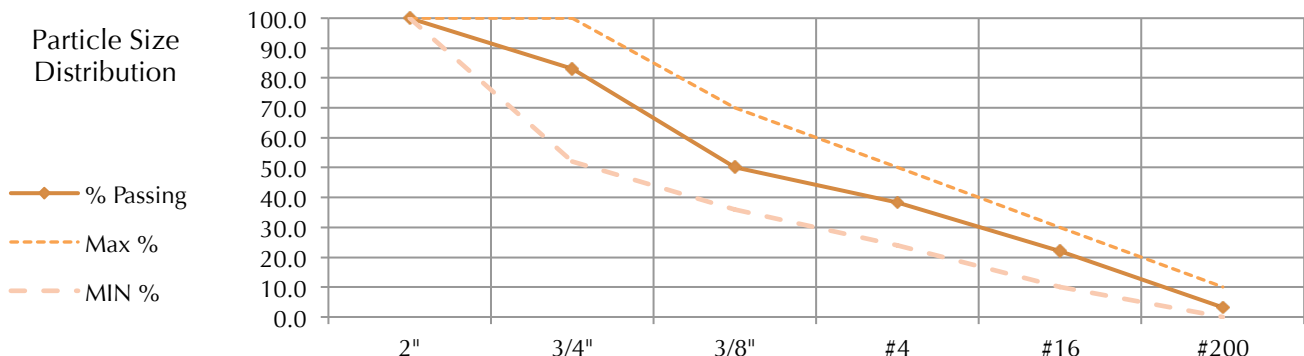
Units	Moist Mass	Dry Mass	Moisture %	Wash ST	Wash End	Wash Loss %
lbs	36.10	34.54	4.53%	11.940	10.991	7.95%

Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification %
2"	0.00	0.00	0.0	0.0	100.0	100	100 100
1 1/2"	0.00	0.00	0.0	0.0	100.0	-	- -
3/4"	5.80	5.80	16.8	16.8	83.2	76	52 100
1/2"	8.22	14.02	23.8	40.6	59.4	-	- -
3/8"	3.18	17.20	9.2	49.8	50.2	53	36 70
#4	4.08	21.28	11.8	61.6	38.4	37	24 50
#16	5.63	26.91	16.3	77.9	22.1	20	10 30
#200	6.53	33.43	18.9	96.8	3.2	5	0 10

## Other Test Results

Test Name	Date	Result	Unit	Target	Specification %
Wash Loss (#200)	4/12/15	7.95%	%	5	0 10



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**Plant** Neville Aggregates - Glenwood Terminal  
**Product** 2A Limestone  
**Source** National Lime and Stone - NLSOHA14  
**Specification** PaDOT 408 Section 703  
**Test Procedure** ASTM D698 - Standard Proctor

## Sample Information

**Sample No** 611-25  
**Start Date** 4/12/15  
**Finish Date** 12/21/15  
**Sampled By** David Giehl  
**Tested By** GTS Inc.  
**Type** Production Sample  
**Method** Stockpile

**Weather** -  
**Temp** -  
**Split Sample**   
**Resample**   
**Lot/Sublot** -  
**Quantity** 50 lbs

## Proctor Results

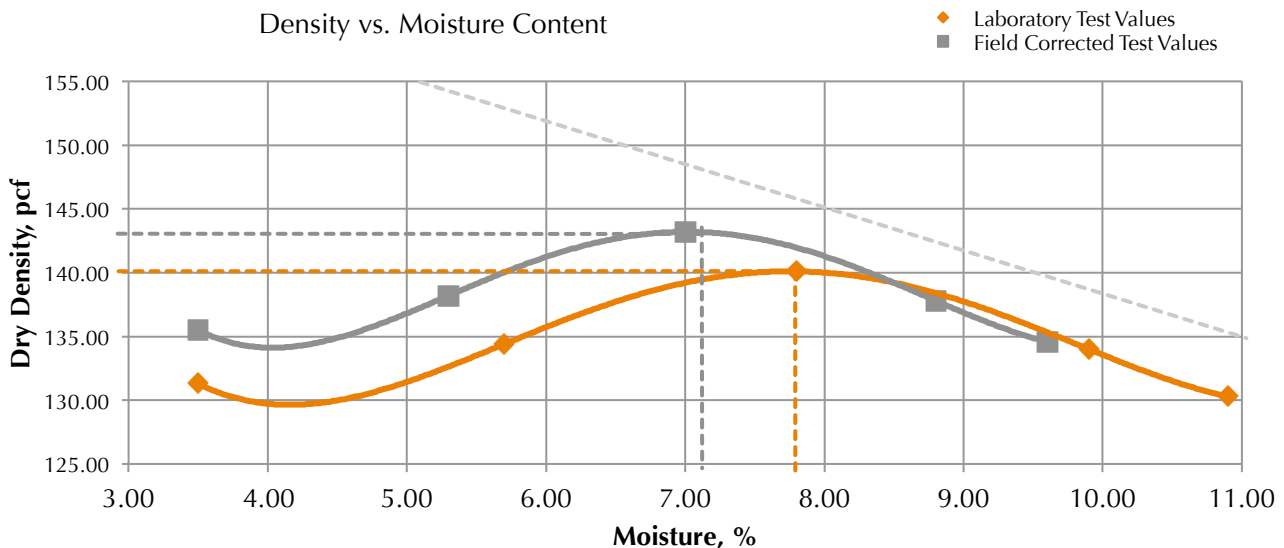
Laboratory Test Values				
Water Content%	3.5	5.7	7.8	9.9
Dry Density, pcf	131.3	134.4	140.1	134.0
Field Corrected Test Values				
Water Content%	3.5	5.3	7.0	8.8
Dry Density, pcf	135.5	138.2	143.2	137.8

**Compaction Effort** Standard  
**Test Procedure** C  
**Mold Diameter** 6"  
**Compacted Layers** 3  
**Weight/Fall** 5.5lbs/12"  
**Mold Volume, cc** 2130.2

## Summary

Lab Optimum Water Content, %	7.8	Field Optimum Water Content, %	7.1
Lab Maximum Dry Density, pcf	140.1	Field Maximum Dry Density, pcf	143

Density vs. Moisture Content



# Quality Test Report

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3507 Neville Road, Pittsburgh PA 15225



CONCRETE PRECAST AGGREGATE MARINE

**Plant** Neville Aggregates - Neville Island Terminal  
**Product** 2A Limestone  
**Source** National Lime and Stone - NLSOHA14  
**Specification** PaDOT 408 Section 703  
**Test Procedure** ASTM D1557 - Modified Proctor

## Sample Information

<b>Sample No</b>	611-23	<b>Weather</b>	-
<b>Start Date</b>	4/12/15	<b>Temp</b>	-
<b>Finish Date</b>	12/21/15	<b>Split Sample</b>	<input type="checkbox"/>
<b>Sampled By</b>	David Giehl	<b>Resample</b>	<input type="checkbox"/>
<b>Tested By</b>	GTS Inc.	<b>Lot/Sublot</b>	-
<b>Type</b>	Production Sample	<b>Quantity</b>	50 lbs
<b>Method</b>	Stockpile		

## Proctor Results

<b>Laboratory Test Values</b>					<b>Compaction Effort</b> Modified <b>Test Procedure</b> C <b>Mold Diameter</b> 6" <b>Compacted Layers</b> 5 <b>Weight/Fall</b> 10lbs/18" <b>Mold Volume, cc</b> 2130.2
Water Content%	3.4	5.7	7.6	10.4	
Dry Density, pcf	139.0	141.8	143.2	133.8	
<b>Field Corrected Test Values</b>					
Water Content%	3.4	5.3	6.9	9.2	
Dry Density, pcf	142.2	144.7	145.9	137.7	

## Summary

Lab Optimum Water Content, %	7.4	Field Optimum Water Content, %	6.7
Lab Maximum Dry Density, pcf	143.3	Field Maximum Dry Density, pcf	145.9

Density vs. Moisture Content

