

NorthEast Transportation Training & Certification Program

HMA Pavement Nuclear Density Test Report (D 2950)

Date/Time: September 17, 2020		Location: Tilcon, CT	
Weather: Sunny	Date Rec'd #: 9/17/2020	Random Sample: No <input type="checkbox"/>	
Project: Durham Meadows Waterline - Durham, CT		Lab Login #: -	Lot #: -
Contract #: 19-75-012-102		Material ID: SP 1.0"	
Contractor: Ludlow Construction Co., Inc.		Material #: -	Sample Location: First Lift
Pay Item #: -		Sample #: -	Station: See Below
Source: Tilcon, CT		Sample Type: QC <input type="checkbox"/>	Offset: See Below
Plant Type: -		Sampled By/Cert. #: Stephen Sturges/#4395	

Density Gauge Information			
Make:	Troxler	Date of Calibration:	4/1/2020
Model #:	3440	Source of Calibration:	Q/C Resource
Serial #:	17249	Standard Count:	-
Gauge #:	17249	Duration of Test:	15 Seconds
Other:	-	Thickness of Lift Tested:	3.0"

Density of HMA in Place by Nuclear Method (D 2950)							
Sublot #	Station	Offset	Time	Random (Y/N)	(B) Max Theor. Density (From T 209)	(A) In-Place Density, kg / m ³	% Compaction (A/B * 100)
-	108+50	-	-	N	167.2	156.1	93.3
-	108+75	-	-	N	167.2	155.9	93.1
-	109+00	-	-	N	167.2	154.8	92.6
-	109+25	-	-	N	167.2	155.4	92.9
-	109+50	-	-	N	167.2	154.9	92.6
-	109+75	-	-	N	167.2	155.1	92.8
-	110+00	-	-	N	167.2	154.5	92.4
-	110+25	-	-	N	167.2	155.4	92.9
-	110+50	-	-	N	167.2	155.2	92.8
-	110+75	-	-	N	167.2	155.3	92.9
-	111+00	-	-	N	167.2	155.4	92.9
-	111+25	-	-	N	167.2	155.4	92.9
-	111+50	-	-	N	167.2	154.6	92.5

Comments:

Tested by: Stephen Sturges	Reviewed by: Nicholas Lisowski
Certification #: 4395	Certification #: 3139
Date: 9/17/2020	Date: 9/23/2020

Test Results Within Engineering Limits: **YES** **NO**

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Date/Time: September 17, 2020		Location: Tilcon, CT	
Weather: Sunny	Date Rec'd #: 9/17/2020	Random Sample: No <input type="checkbox"/>	
Project: Durham Meadows Waterline - Durham, CT		Lab Login #: -	Lot #: -
Contract #: 19-75-012-102	Material ID: SP 1.0"		Sublot #: -
Contractor: Ludlow Construction Co., Inc.		Material #: -	Sample Location: Second Lift
Pay Item #: -	Sample #: -		Station: See Below
Source: Tilcon, CT		Sample Type: QC <input type="checkbox"/>	Offset: See Below
Plant Type: -		Sampled By/Cert. #: Stephen Sturges/#4395	

Density Gauge Information			
Make:	Troxler	Date of Calibration:	4/1/2020
Model #:	3440	Source of Calibration:	Q/C Resource
Serial #:	17249	Standard Count:	-
Gauge #:	17249	Duration of Test:	15 Seconds
Other:	-	Thickness of Lift Tested:	3.0"

Density of HMA in Place by Nuclear Method (D 2950)							
Sublot #	Station	Offset	Time	Random (Y/N)	(B) Max Theor. Density (From T 209)	(A) In-Place Density, kg / m ³	% Compaction (A/B * 100)
-	108+50	-	-	N	167.2	155.3	92.9
-	108+75	-	-	N	167.2	155	92.7
-	109+00	-	-	N	167.2	155.7	93.1
-	109+25	-	-	N	167.2	155.4	92.9
-	109+50	-	-	N	167.2	156.3	93.5
-	109+75	-	-	N	167.2	157	93.9
-	110+00	-	-	N	167.2	156.6	93.7
-	110+25	-	-	N	167.2	156	93.3
-	110+50	-	-	N	167.2	155.7	93.1
-	110+75	-	-	N	167.2	156.9	93.8
-	111+00	-	-	N	167.2	157.7	94.3
-	111+25	-	-	N	167.2	157.9	94.4
-	111+50	-	-	N	167.2	157.3	94.1

Comments:

Tested by: Stephen Sturges		Reviewed by: Nicholas Lisowski	
Certification #: 4395		Certification #: 3139	
Date: 9/17/2020		Date: 9/23/2020	
Test Results Within Engineering Limits:		YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

NorthEast Transportation Training & Certification Program

HMA Field Temperatures Test Report (Sub-Base, Air, Mix)

Date/Time: September 17, 2020		Location: Tilcon, CT	
Weather: Sunny	Date Rec'd #: 9/17/2020	Random Sample: No ▼	
Project: Durham Meadows Waterline	Lab Login #: -	Lot #: -	
Contract #: 19-75-012-102	Material ID: SP 1.0"	Sublot #: -	
Contractor: Ludlow Construction Co., Inc.	Material #: -	Sample Location: First & Second Lift	
Pay Item #: -	Sample #: -	Station: See Below	
Source: Tilcon, CT	Sample Type: QC ▼	Offset: See Below	
Plant Type: -	Sampled By/Cert. #: Stephen Sturges/#4395		

Temperature Reference Information			
Weather:	Sunny	Sub Base Temperature, °F (BT):	66
Thermometer Type:	Infrared Temp Gun	Air Temperature High, °F (ATH):	72
Calibration Source:	Manufacturer	Air Temperature Low, °F (ATL):	68
Calibration Date:			

HMA Field Temperature Measurements							
Sublot #	Station	Offset	Time	Mat in.	Random (Y/N)	Location	Mix Temp, °F (MT)
-	108+50	-	-	3"	N	Route 17	310
-	108+75	-	-	3"	N	Route 17	
-	109+00	-	-	3"	N	Route 17	
-	109+25	-	-	3"	N	Route 17	
-	109+50	-	-	3"	N	Route 17	317
-	109+75	-	-	3"	N	Route 17	
-	110+00	-	-	3"	N	Route 17	
-	110+25	-	-	3"	N	Route 17	
-	110+50	-	-	3"	N	Route 17	308
-	110+75	-	-	3"	N	Route 17	
-	111+00	-	-	3"	N	Route 17	
-	111+25	-	-	3"	N	Route 17	302
-	111+50	-	-	3"	N	Route 17	

Comments:

Tested by: Stephen Sturges	Reviewed by: Nicholas Lisowski
Certification #: 4395	Certification #: 3139
Date: 9/17/2020	Date: 9/23/2020
Test Results Within Engineering Limits:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>