

NorthEast Transportation Training & Certification Program

HMA Pavement Nuclear Density Test Report (D 2950)

Date/Time: September 23, 2020		Location: Tilcon, CT	
Weather: Sunny	Date Rec'd #: 9/23/2020	Random Sample: No <input type="checkbox"/>	
Project: Durham Meadows Waterline - Durham, CT		Lab Login #: -	Lot #: -
Contract #: 19-75-012-106	Material ID: SP 1.0"		Sublot #: -
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)
-	123+00	-	-	N	167.2	158.1	94.6
-	123+25	-	-	N	167.2	159.5	95.4
-	123+50	-	-	N	167.2	161.0	96.3
-	123+75	-	-	N	167.2	159.7	95.5
-	124+00	-	-	N	167.2	159.0	95.1
-	124+25	-	-	N	167.2	159.3	95.3
-	124+50	-	-	N	167.2	158.8	95.0
-	124+75	-	-	N	167.2	160.2	95.8
-	125+00	-	-	N	167.2	160.0	95.7
-	125+25	-	-	N	167.2	158.7	94.9
-	125+50	-	-	N	167.2	157.4	94.1
-	125+75	-	-	N	167.2	157.7	94.3
-	126+00	-	-	N	167.2	158.2	94.6

Comments:

Tested by: Stephen Sturges		Reviewed by: Nicholas Lisowski	
Certification #: 4395		Certification #: 3139	
Date: 9/23/2020		Date: 10/6/2020	
Test Results Within Engineering Limits:		YES <input type="checkbox"/>	NO <input type="checkbox"/>

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Date/Time: September 23, 2020		Location: Tilcon, CT	
Weather: Sunny	Date Rec'd #: 9/23/2020	Random Sample: No <input type="checkbox"/>	
Project: Durham Meadows Waterline - Durham, CT		Lab Login #: -	Lot #: -
Contract #: 19-75-012-106		Material ID: SP 1.0"	
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)
-	123+00	-	-	N	167.2	157.9	94.4
-	123+25	-	-	N	167.2	160.1	95.8
-	123+50	-	-	N	167.2	158.0	94.5
-	123+75	-	-	N	167.2	158.5	94.8
-	124+00	-	-	N	167.2	159.4	95.3
-	124+25	-	-	N	167.2	161.2	96.4
-	124+50	-	-	N	167.2	160.4	95.9
-	124+75	-	-	N	167.2	156.9	93.8
-	125+00	-	-	N	167.2	156.6	93.7
-	125+25	-	-	N	167.2	157.0	93.9
-	125+50	-	-	N	167.2	158.3	94.7
-	125+75	-	-	N	167.2	159.7	95.5
-	126+00	-	-	N	167.2	160.1	95.8

Comments:

Tested by: Stephen Sturges		Reviewed by: Nicholas Lisowski	
Certification #: 4395		Certification #: 3139	
Date: 9/23/2020		Date: 10/6/2020	
Test Results Within Engineering Limits:		YES <input type="checkbox"/>	NO <input type="checkbox"/>

NorthEast Transportation Training & Certification Program

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

Date/Time: September 24, 2020		Location: Tilcon, CT	
Weather: Sunny	Date Rec'd #: 9/24/2020	Random Sample:	▼
Project: Durham Meadows Waterline	Lab Login #: -	Lot #: -	
Contract #: 19-75-012-106	Material ID: SP 1.0"	Sublot #: -	
Contractor: Ludlow Construction Co., Inc.	Material #: -	Sample Location: First 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):	64
Thermometer Type:	Infrared Temp Gun	Air Temperature High, °F (ATH):	76
Calibration Source:	Manufacturer	Air Temperature Low, °F (ATL):	52
Calibration Date:			

HMA Field Temperature Measurements							
Sublot #	Station	Offset	Time	Mat Thickness (inches)	Random (Y/N)	Location	Mix Temp, °F (MT)
-	123+00	-	-	3.0"	N	Route 17	320
-	123+25	-	-	3.0"	N	Route 17	
-	123+50	-	-	3.0"	N	Route 17	
-	124+00	-	-	3.0"	N	Route 17	
-	124+25	-	-	3.0"	N	Route 17	310
-	124+50	-	-	3.0"	N	Route 17	
-	124+75	-	-	3.0"	N	Route 17	
-	125+00	-	-	3.0"	N	Route 17	
-	125+25	-	-	3.0"	N	Route 17	307
-	125+50	-	-	3.0"	N	Route 17	
-	125+75	-	-	3.0"	N	Route 17	
-	126+00	-	-	3.0"	N	Route 17	309

Comments:

Tested by: Stephen Sturges	Reviewed by: Nicholas Lisowski
Certification #: 4395	Certification #: 3139
Date: 9/23/2020	Date: 10/6/2020

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