NorthEast Transportation Training & Certification Program

HMA Asphalt Content, Gradation & Marshall Volumetrics Test Report (T 329, T 309, T 30, T 166, T 209, T 245)

Date/Time:		Lab/Location:			
Weather:		Date Rec'd #:		Random Sample:	No
Project:		Lab Login #:		Lot #:	
Contract #:		Material ID:		Sublot #:	
Contractor:		Material #:		Sample Location:	
Pay Item #:		Sample #:		Station:	
Source:		Sample Type:	QC	Offset:	
Plant Type:		Sampled By/Cert. #:			

Moisture Content (T 329)		Asphalt Content of HMA by Ignition Method (T 308)			
Sample Wet Mass (Mi):		Initial Sample Mass (Wsi):		PG Binder Mass (Ws - Wa):	
Sample Dry Mass (Mf):		Corrected Sample Mass (Ws):		% Agg. Loss by Ignition (Cf):	
Water Mass (C):		(Wsi / (1+(.01*M)))		%PG Binder (Pb):	
% Moisture (M):		Final Sample + Pan (Wap):		((((Ws - Wa)/Ws)*100)-Cf)	
(100*((Mi-Mf)/Mi))		Pan Tare Mass (P):		PG Binder JMF:	
HMA Temperature		Final Sample Mass (Wa):		Test Time, minutes:	
Sample Temp, ºC:		(Wap - P)		Oven Set Point, ºC:	

Mechanical Analysis of Extracted Aggregate (T 30)

Sieve, in. (mm)	Mass Retained	Percent Retained	Percent Passing	Job Mix Formula	+ / - Tolerance	Variance
1 1/2 (37.5)			100.0			
1 (25)			100.0			
3/4 (19)			100.0			
1/2 (12.5)			100.0			
3/8 (9.5)			100.0			
#4 (4.75)			100.0			
#8 (2.36)			100.0			
#16 (1.18)			100.0			
#30 (600 µm)			100.0			
#50 (300 µm)			100.0			
#100 (150 µm)			100.0			
#200 (75 µm)			100.0			
PAN						
TOTAL:						

Bulk Specific Gravity of Compacted HMA (T 166)

Specimen #	Mass in Air	Mass in H_2O	SSD Mass	Volume	G_{mb}

Maximum Specific Gravity of HMA (T 209)

Specimen #	(A)	Bowl Method: Pyc on weigh below	Bowl Method: Pyc and Sample on Weigh Below	Flask Method: (D)	Flask Method: (E)		Unit Weight
					Average:		

A = Sample
D = Pycn. + H2O
E = Pycn. + H2O + A

Specimen #	Volumetric Analysis: G_{sb}	% Air Voids	VMA	VFA	HMA Marshall Stability and Flow (T 245): Dial Reading	Corr. Factor	Stability	Corr. Stability	Flow
	Average:						Average:		

Comments:

Tested by:		Reviewed by:	
Certification #:		Certification #:	
Date:	☐	Date:	☐