MATT MENU SELECTION - 09

DOTD 03-22-0748
Rev. 07/05

Louisiana Department of Transportation and Development

SUPERPAVE ASPHALTIC CONCRETE AGGREGATES

Project No ..... - - **Material Code** ... 6 5 0 _____ **Sampled By** *(signature)*

Lab No ..... -

Date Sampled ..... - -

Submitted By .....

Quantity ..... X X X X X X **Unit** ..... X X X

Purpose Code ....

Source Code .....

Spec Code .....

P. O. No. .....

Independ. Testing Lab Code L

Date Tested ..... - -

Sample Ident .....

Material Sampled From .....

Date Transport to Dist/Matls Lab ... - -

Date Rec'd @ Dist Lab ..... - -

Date Rec'd @ Matls Lab ..... - -

Remarks 1

Remarks 2

Item No. .....

Sampling / Testing Comments

	Results	Pass or Fail P / F
PLANT CODE	H	xxxx
DESIGN LEVEL *(A, 1, 2, 3)*		xxxx
MIX TYPE *(WC, BC, BASE, INCID)*		xxxx
MIX TYPE CODE *1 - Incidental 3 - Binder 2 - Wearing 4 - Base*		xxxx
JMF SEQ NO.		xxxx
ASPHALTIC CONCRETE AGGREGATES MATERIAL CODE		xxxx
BULK SPECIFIC GRAVITY - DRY (G_{sb})	•	xxxx
APPARENT SPECIFIC GRAVITY (G_{sa})	•	xxxx
ABSORPTION % *(AASHTO T 84 or T 85)*	•	xxxx
COARSE AGGREGATE ANGULARITY (+2 Faces) *(DOTD TR 306)*		
FLAT AND ELONGATED (5:1) *(ASTM D4791)*		
FINE AGGREGATE ANGULARITY (FAA)	•	
SAND EQUIVALENT (-No. 4) *(DOTD TR 120)*		
RECLAIMED ASPHALT PAVEMENT (RAP)	xxxxxxxxxxxxxxxxxxxxxxxx	xxxx
% AC IN RAP	•	xxxx
% AGGREGATE IN RAP	•	xxxx
MAX. SPECIFIC GRAVITY OF RAP	•	xxxx
EFFECTIVE SPECIFIC GRAVITY OF RAP AGGREGATE (G_{se})	•	xxxx
SPECIFIC GRAVITY OF MINERAL FILLER (G_{sb}) *(AASHTO T 100)*	•	xxxx
FRICTION RATING, COARSE AGGREGATE		
% CRUSHED *(DOTD TR 306)*		

Tested By: _____ Date: _____

Checked By: _____ Date: _____

APPROVED BY: _____ **Date:** _____

(Over)

(CAA) Coarse Aggregate Angularity (+No. 4) *(DOTD TR 306)*			
Wt of doubled faced crushed	A		
Wt of + No. 4 aggregate	B		
% Crushed *(Double Faced)*		A / B x 100	

Effective Specific Gravity of Aggregate in RAP			
Wt of aggregate *(DOTD TR 323)*	A		
Wt of RAP	B		
% Asphalt in RAP	C	(B - A) / B x 100	
Wt of jar + water	D		
Wt of jar + water + RAP	E		
Spec grav of RAP *(AASHTO T209)*	F	B / (D + B - E)	
% Aggregate in RAP	X	100 - C	
Spec grav of asphalt cement	H		
Effective spec grav of aggregate	G_{se}	X / (100 / F) - (C / H)	

Notes:

Gradation of Extracted Aggregate		
Sieve Size		% Passing
2 in	(50 mm)	
1.5 in	(37.5 mm)	
1 in	(25.0 mm)	
3/4 in	(19.0 mm)	
1/2 in	(12.5 mm)	
3/8 in	(9.5 mm)	
No 4	(4.75 mm)	
No 8	(2.36 mm)	
No 16	(1.18 mm)	
No 30	(600 µm)	
No 50	(300 µm)	
No 100	(150 µm)	
No 200	(75 µm)	
Passing No. 200		
< 25% Passing No. 200		Yes _____ No _____

Tested By: _____ Date: _____

Checked By: _____ Date: _____

(FAA) Fine Aggregate Angularity (-No. 8) *(DOTD TR 121)*				
			TEST 1	TEST 2
Wt of empty measure	D			
Wt of measure & fine aggr	E			
Net Wt of fine agg in measure	F	E - D		
Volume of cylindrical measure	V			
Bulk dry spec grav of fine aggr	G			
Uncompacted voids % in matl	U	V - (F/G) / V x 100		
Average uncompacted voids	U_s	$U_1 + U_2 / 2$		

Bulk Specific Gravity, Apparent & Absorption			
Fine Aggregate *(AASHTO T 84)*			
Wt of oven dry sample in air	A		
Wt of volumetric flask with water	B		
Wt of flask, sample & water	C		
Wt of SSD test sample	S		
Bulk spec grav (Dry)		A / (B + S - C)	
Apparent specific gravity		A / (B + A - C)	
% Absorption		(S - A) / A x 100	
Coarse Aggregate *(AASHTO T 85)			
Wt of oven dry sample in air	A		
Wt of SSD in air	B		
Wt of SSD in water	C		
Bulk spec grav (Dry)		A / (B - C)	
Apparent spec grav		A / (A - C)	
% Absorption		(B - A) / A x 100	
***Combined Specific Gravity & Absorption**			
% Passing No. 4	M		
% Retained No. 4	N	100 - M	
Bulk Spec Grav (Dry) — Fine	f		
Bulk Spec Grav (Dry) — Coarse	c		
Bulk Spec Grav (Dry) — Combined		(f x M / 100) + (c x N / 100)	
Apparent Spec Grav — Fine	f		
Apparent Spec Grav — Coarse	c		
Apparent Spec Grav — Combined		(f x M / 100) + (c x N / 100)	
% Absorption — Fine	f		
% Absorption — Coarse	c		
% Absorption — Combined		(f x M / 100) + (c x N / 100)	

**** If > 10% passing No. 4, split material on No. 4, run separately and combine.***