# FDOT Asphalt Forms and Reports CTQP Training - 2009 Update

# Page

- 2 675-030-17 Asphalt Independent Verification Report (09/2008)
- 7 675-030-18 Asphalt Plant Daily Report of Quality Control (09/2008)
- 12 675-030-19 Asphalt Plant Verification Report (09/2008)
- 18 675-030-20 Asphalt Roadway Daily Report of Quality Control (09/2008)
- 24 675-030-20A Asphalt Roadway Daily Report of Quality Control Automated Ver. (12/2008)
- 26 675-030-21 Asphalt Roadway Verification Report (09/2006)
- 30 675-030-22A Asphalt Plant Pay Factor Worksheets, July 2005 Spec, and later (02/2005)
- 38 675-030-23 Asphalt Resolution Report (09/2008)
- 39 675-030-24 Asphalt Mix Design Summary Report (01/2004)
- 44 675-030-25 Asphalt Plant Worksheet (03/2009)
- 46 675-060-10 Asphalt Pavement Straightedge Test Report (03/2008)
- 50 700-010-98 Cross Slope Measurement Form (03/2002)

Other related Forms and Reports not included:

700-050-12 Asphalt Roadway - As Built Pavement Data (LIMS) (02/2009)

		Asp	halt Indepe	endent Veri	fication	Repo	rt							
Fin. Project ID:			Pay Item	No.:	Material ID.: 123L									
Sample Level:	IV		Resolution Sam	iple: <b>N</b>										
Destination LabID:			Manfr or P	rod:	Plant No.:									
Design Mix No.:					Sampled By:									
Date Sampled:			Intended l	Jse:	Performed By:									
Lot: Sublot:			Quant. F	Rep:	_	U	Jnit of	Measure: TN	1					
	Plant Volu	metrics	Traf	fic Level										
	LIMS ID:													
	Date Tested:													
	Sample No.:													
Sa	ample Status:						R	loadway Co	ores					
Grad and AC Cont.	Mix Design Targets	Independent Verification	Split Sample	Difference	Lan	e	Т	ons	Statio	on	Lift # of #			
1" (25.0mm)														
3/4" (19.0mm)				1										
1/2" (12.5mm)														
3/8" (9.5mm)														
#4 (4.75mm)														
#8 (2.36mm)						Ro	badv	way Core G	mb D	ata				
#16 (1.18mm)					ID	(A) Dry \	Wgt	(B) SSD Wgt	(C) In	H <sup>2</sup> O	Gmb A/B-C			
#30 (600 μm)							-		. ,					
#50 (300 μm)					-									
#100 (150 μm)														
#200 (75μm)														
AC %														
Gmm						Į			Ave	erage				
Avg. Bulk (Gmb)						SG	C Pi	ll Gmb & H	eight	Data				
Agg. Spec. Grav.						ID								
Hgt. @ N int.					(A) D	ry Weight								
Hgt @ N des.					(B) S	SD Weigh	t							
Gyrations @ Ndes.					(C) We	eight in H <sup>2</sup>	0							
% Gmm @ N int.					Gm	b A/B-C								
% Gmm @ N des.					Aver	age Gmb								
% Air Voids @ Nd					Hgt	. @ Nini.								
% VMA @ Ndes.					A	verage								
% VFA @ Ndes.					Hgt.	@ Ndes.								
Dust / Asphalt					A	verage								
Gmb @ Ndes.														
Gse					1									
Pba					Qualifi	ed Techni	ician	Signature						
Pbe					Rema	rks:								
Roadwa	ay Core 1 Gmb				1									

		<b>A</b> =				D	1					09/06	
		Asp	ication Report										
Fin. Project	ID: 1		Pay	y Item No.: 2	Material ID.: <b>123L</b>								
Sample Le	vel: <b>IV</b>		Resolutio	on Sample: <b>N</b>									
Destination Lab	DD: 3		Mar	nfr or Prod: 4	Plant No.: <mark>5</mark>								
Design Mix N	No.: 6				Sampled By: <b>7</b>								
Date Sampl	led: 8		Inte	ended Use: 9	Performed By: 10								
Lot: 11 Sub	olot: 11		Q	uant. Rep: 12	7		Unit of	Measure:	TN				
	Plant Volu	metrics	Traff	ic Level 13									
	LIMS ID:	14 —											
	Date Tested:	15 —											
	Sample No.:	16 —											
Sa	ample Status:	17 —			Roadway Cores								
Grad and AC Cont.	Mix Design Targets	Independent Verification	Split Sample	Difference	Lan	ne	Т	ons	Stat	ion	Lift	# of #	
1" (25.0mm)	18	19	20	21	23	3		24	2	5	2	26	
3/4" (19.0mm)													
1/2" (12.5mm)													
3/8" (9.5mm)													
#4 (4.75mm)					•			•		•		•	
#8 (2.36mm)							Roadv	vay Core	e Gmb	Data			
#16 (1.18mm)					ID	(A) Di	ry Wgt	(B) SSD W	/gt (C)	In H <sup>2</sup> O	Gmb	A/B-C	
#30 (600 μm)								27					
#50 (300 μm)													
#100 (150 μm)													
#200 (75μm)													
AC %													
Gmm									A	verage			
Ava. Bulk (Gmb)						S	GC Pi	II Gmb 8	Heigh	t Data			
Agg. Spec. Grav.						ID		2	<u>8</u>				
Hgt. @ N int.					(A) D	Dry Weig	pht		-				
Hgt @ N des.					(B) S	SD Weig	ght						
Gyrations @ Ndes.					(C) We	eight in I	H <sup>2</sup> O						
% Gmm @ N int.					Gm	nb A/B-C	;						
% Gmm @ N des.					Aver	rage Grr	nb						
% Air Voids @ Nd					Hgt	. @ Nin	i.						
% VMA @ Ndes.					A	verage							
% VFA @ Ndes.					Hgt.	@ Nde	s.						
Dust / Asphalt					A	verage				·			
Gmb @ Ndes.													
Gse								2	9				
Pba	<b>↓</b>	+	<del>\</del>	<b>↓</b>	Quali	fied Te	chnicia	in Signatu	ire				
Pbe					Rema	ırks:	30						

# INSTRUCTIONS FOR COMPLETION OF ASPHALT INDEPENDENT VERIFICATION REPORT

Erasures are not allowed. Mistakes shall have a single line through the original data with the correct entry written close to it . All corrections shall be initialed and dated. Use updated forms when they become available.

# LIMS SINGLE SAMPLE LOGIN INFORMATION SECTION

- 1 Fin. Project ID Enter the Financial Project ID on which the sampled mix was placed.
- 2 Pay Item No. Record the pay item number represented by the report. The pay item number must be written exactly must be written exactly as it appears on the project JOB GUIDE SCHEDULE.
- 3 <u>Destination Lab ID</u> Enter the Lab ID (assigned by the Department) that will be receiving and performing the testing of the sample(s).
- 4 <u>Manufacturer or Producer</u> -Enter the Company Name that actually manufactured or produced the material.
- 5 <u>Plant No.</u> Identification number assigned to each approved asphalt plant producing asphalt for the Department.
- 6 Design Mix No. Example: SP 97-0008, SP 02-1750A.
- 7 <u>Sampled By (TIN#)</u> Record the Technician Identification Number of the person who actually collected the sample.
- 8 Date Sampled Date and Time sample was taken. (e.g., 7/1/2004 at 10:00pm)
- Intended use Indicate if mix is for Base, Structure, Friction Course etc,.and Lane(s), (R1, R2.
   L1, L2) (e.g., Structural, R1 or Base, L2)
- 10 <u>Performed By (TIN#):</u> Record the Technician Identification Number of the person who actually performs the sample testing.
- **11 Lot Sublot** Enter the Lot # and Sublot # for the sample that was taken.
- 12 Quantity Rep. Sample tonnage for this LOT (i.e., sample taken at tonnage 3682 tons of this LOT.)
- 13 Traffic Level Enter the Traffic Level of the type of mix being tested. (i.e., A,B,C,D or E)
- 14 <u>LIMS Sample ID</u> The LIMS Sample ID is a field that is automatically generated by LIMS upon sample login. Once completing the login process record the LIMS Sample ID here.
- **15 <u>Date Tested</u>** Enter the date the sample was tested.
- 16 <u>Sample No.</u> Each sample number will correspond to the Quality Control sample number for each sublot tested. (e.g., 2B001Q corresponds to 2B001I)

**NOTE:** Sample numbers cannot be duplicated when using the sample material number on the same project. To prevent duplication, samples should be numbered sequentially, according to mix type and use. Sample numbers should be kept sequentially despite changes in an approved mix design

EXAMPLES OF	SAMPLE NUMBERS
Type of Mix	Correct Numbering Sequences
B-12.5	B2001I, B2002I, B2003I, <-> B2999I
FC-9.5	1F001I, 1F002I, 1F003I, <-> 1F999I
FC-12.5	2F001I, 2F002I, 2F003I, <-> 2F999I
FC-5	5F001I, 5F002I, 5F003I, <-> 5F999I
FC-6	6F001I, 6F002I, 6F003I, <-> 6F999I
SP-9.5 TL-A	1A001I, 1A002I, 1A003I, <-> 1A999I
SP-9.5 TL-B	1B001I, 1B002I, 1B003I, <-> 1B999I
SP-9.5 TL-C	1C001I, 1C002I, 1C003I, <-> 1C999I
SP-9.5 TL-D	1D001I, 1D002I, 1D003I, <-> 1D999I
SP-9.5 TL-E	1E001I, 1E002I, 1E003I, <-> 1E999I
SP-12.5 TL-A	2A001I, 2A002I, 2A003I, <-> 2A999I
SP-12.5 TL-B	2B001I, 2B002I, 2B003I, <-> 2B999I
SP-12.5 TL-C	2C001I, 2C002I, 2C003I, <-> 2C999I
SP-12.5 TL-D	2D001I, 2D002I, 2D003I, <-> 2D999I
SP-12.5 TL-E	2E001I, 2E002I, 2E003I, <-> 2E999I
SP-19.0 TL-A	3A001I, 3A002I, 3A003I, <-> 3A999I
SP-19.0 TL-B	3B001I, 3B002I, 3B003I, <-> 3B999I
SP-19.0 TL-C	3C001I, 3C002I, 3C003I, <-> 3C999I
SP-19.0 TL-D	3D001I, 3D002I, 3D003I, <-> 3D999I
SP-19.0 TL-E	3E001I, 3E002I, 3E003I, <-> 3E999I

17 Sample Status - Does any sample characteristic fall outside of Table 334-5? Yes or No.

# PLANT VOLUMETRICS

Note: Results from previous Sublots samples should not be recorded again. (Record all results to two decimal places).

- 18 <u>Mix Design Targets</u> Record data from the Job Mix Formula (JMF) on the approved Mix Design.
- **19 Independent Verification** Enter gradation and volumetric results from the Independent Verification sample.
- 20 <u>Split Sample</u> Enter gradation and volumetric data results from the Split Sample, if needed for comparison.
- 21 <u>Difference</u> Calculate the difference between the Independent Verification (Item 22) and Comparison Sample (Item 23).

# **ROADWAY CORES**

- 23 Lane Record appropriate lane where density core was taken.
- **24 <u>Tons</u>** Record the random number tonnage for the density core location.
- **<u>25</u>** <u>**Station**</u> Record the station number for the density core location.
- 26 Lift No. Record lift number for the pay-item being placed. Example: 1 of 3, 2 of 2, 1 of 1.

# **ROADWAY CORE Gmb Data**

27 Record the ID#, Dry Weight, SSD Weight, Weight in Water and Calculate the Gmb. Once all five cores are completed calculate the average.

# SGC Pill Gmb & Height Data

**28** Record the ID#, Dry Weight, SSD Weight, Weight in Water and Calculate the Gmb. Once both pills are completed calculate the average.

# **MISCELLANEOUS**

- 29 <u>Qualified Technician Signature</u> To be signed by the Qualified Asphalt Independent Verification Technician.
- **30** <u>**Remarks**</u> Comments pertinent to the production of the asphalt mix which are not shown elsewhere on the worksheet. Document any deficiencies noted in the reviews and corrective action taken.

675-030-18
MATERIALS
09/08

D	niect ID ·				Day Itom No .	Material ID • 1231											
Pro									Material ID.:	23L							
Samp				Resol	ution Sample: N												
Destinatio	n LabID:			N	lantr or Prod:		Sampled Bv:										
Design	MIX NO.:								Sampled By:								
Date S	sampled:	Ga	neral Inform	ation	ntended Use:			Performed By:									
Tom	noroturo	°E / °C		tity	This Lot 7	Fone			ibber Grade		uei						
Fetabl	lished	г/ C		lious	THIS LOL	10115	Blend Type Check one	Sample #									
Δνοι	rane		(A) Tro	avs			MATI #453										
Maxi	mum		(C) Waste	/ Misc			Site	Test Temp	C	0F / <sup>0</sup> C	<sup>0</sup> F / <sup>0</sup>						
Minir	mum		(D) Adjusted	Total (B-C)			MATI #452			AM	P						
Average	of 1st 5		Total (E	0+A)			Storage	Viscosity		poises	poise						
riverage	01 100 0				DI	ant Volur				Pa.s.	Pa.s						
I IMP					<b>F</b> 4		INS Sample ID No.		[								
LIND	Sample ID NO.:					<u>ا</u>	Sample No -	1									
Same	ple Status (V/N)						ample Statue (V/M)										
Gradation and AC	Mix Design	LOT/SUB	LOT/SUB	LOT/SUB	LOT/SUB	Volumetric	s Design	LOT/SUB	LOT/SUB	LOT/SUB	LOT/SUB						
Content	largets						largets										
1 <sup>-</sup> (25.0mm)						Max. Grav. (Gn	nm)										
1/2" (12.5mm)						Arg Sp Grov (G	ish)										
3/8" (9.5mm)						Hat @ N int											
#4 (4 75mm)						Hat @ N des											
#8 (2.36mm)						Gyrations @ Nr	les										
#16 (1.18mm)						% Gmm @ N i	nt.										
#30 (600 mm)						% Gmm @ N d	es.										
#50 (300 mm)						% Air Voids @	Nd										
#100 (150 mm)						% VMA @ Nde	es.										
#200 (75mm)						% VFA @ Nde	iS.										
AC %						Dust / Aspha	lt										
	* * * * * * * * * * * * * * * * * * * *					Gmb @ Ndes	s.										
	Qualified Te	chnician Signati	ure		_	Gse											
Rema	ırks:					Pba											
Roma						Pbe											
						C	ore 1 Station	123 +	+	+	+						
							Core 1 Gmb										
						c	ore 2 Station	+	+	+	+						
						s	Core 2 Gmb										
						Sor C	ore 3 Station	+	+	+	+						
						ay (	Core 3 Gmb		1								
						adv.	ore 4 Station	+	+	+	+						
						Ro Ro	Core 4 Gmb										
						с	ore 5 Station	+	+	+	+						
							Core 5 Gmb										
						Δ	verage Gmb										
						% Gmm		-	-								

State Of Florida Department Of Transportation

Propert Doc:         3         Pry Num Nation         4         Material Doc 123L           Submitterial DD 5         Mark Pertol         6         Post Nation         7           Description         Sample Sr         9         Sample Sr         9           Data Sample II         0         Inconstruction         Post Nation Signature         23           Temperature "F /"C         Quantity         This Lot Tons         Hierd Type         Apple Induct Ocar         23           Established         13         (a) Process         18         Eastername         20         This Lot Tons         Hierd Type         Sample Single         23         24         Print         7/r/C         (7/r/C				Asp Dat	halt Plant - C e 1	aily R	Repoi P	rt of C Page I	Qual No.	ity Control 2 of								
Beskins Sample: N           Design kins: 8         Sample De:         Cample D:         Sample D: <th c<="" td=""><td>Project ID.:</td><td>3</td><td></td><td></td><td>Pay Item</td><td>No.: 4</td><td>4</td><td></td><td></td><td></td><td>Material II</td><td>).: <b>123L</b></td><td></td><td></td></th>	<td>Project ID.:</td> <td>3</td> <td></td> <td></td> <td>Pay Item</td> <td>No.: 4</td> <td>4</td> <td></td> <td></td> <td></td> <td>Material II</td> <td>).: <b>123L</b></td> <td></td> <td></td>	Project ID.:	3			Pay Item	No.: 4	4				Material II	).: <b>123L</b>					
Description: Labb: 5         Mandror Prod. 6         Pare New: 7           General Information         Sample 3           Sample 10         Interded Us: 11         Referended y: 12           Concernal Information         Referended y: 12           Referended y: 13         Concernal Information         Referended y: 12           Temperature 7F /*C         Quantify         This Lo Trons           Established         13         Concernal Information           Concernal Information         Referended y: 12           Matter Prof. 6         Concernation           Matter Prof. 6         Concernation         Concernation         Concernation         Concernation           Concernation         Concernation         Concernation         Concernation           Concernation <td>Sample Level:</td> <td>Q</td> <td></td> <td></td> <td>Resolution Sam</td> <td>nple: N</td> <td>N</td> <td></td> <td></td> <td colspan="8"></td>	Sample Level:	Q			Resolution Sam	nple: N	N											
Sample 10         Sample 10         Sample 10         Network by 12           Temperature *F */ C         Quantity         This Lot Tons         Retart Rubber Sinder           Established         13         A section of X-splat Rubber Sinder           Average         14         (0) Totage         Sample 10          Sample 10	Destination LabID:	5			Manfr or P	rod: 🤆	6			Plant No.: 7								
Descange:         10         tende ther         11         Performed [12]           Concel Information         Rotational Viscosity for Asphalt Rubber Dindr         25           Established         13         (A) Previous         18         Temperature %F / *C         Quantity         This Lot Tons         Binnet Type         Aphilt Rubber Dindr         25           Established         13         (A) Previous         18         Sarge #         30	Design Mix No.:	8																
General Information         Rotational Viscosity of xephal Rubber Binder           Temperature % 7 / ℃         Quantity         This Lot Tem         Argentit Rubber Grade         25           Maximum         14         (i) Previous         18         Single 3         LMS ID         26           Maximum         15         (c) Vissel / Maximum         20         Single 3         LMS ID         26	Date Sampled:	10			Intended	Jse: 1	1				y: <b>12</b>							
Image: Temperature % P/ ℃         Quantity         This Lot Tors         Deck Type         ApphaR Rober Condit         25           Established         13         (A) Preview         18         30         30         30           Average         14         (B) Today         19         MATL #45         LUS 100         26         15         17         16         (D) Adjusted Tota (E-C)         21         MATL #45         LUS 100         28         16         17         16         (D) Adjusted Tota (E-C)         21         MatL #45         18         28         M         PL           Verage         16 t5         17         Tota (D-A)         22         mark         28         mark         PL         PL<		Ge	eneral Inform	ation						Rotational V	iscosity f	or Aspha	alt Rubber Bin	der				
Established         13         (4) Persona         18         Check on sample #         sample #         30           Average         14         (8) Today:         19         MATL M43         LM8 ID         26           ************************************	Temperature	∍°F/°C	Quan	tity	This Lot 1	「ons		Blend T	уре	Asphalt R	ubber Grade		25					
Average         14         (6) Toosy         19         MATL Has         LMS ID         26           Mainum         15         (C) Wase/Max         20         Size         23         Test Teny, 27         **/*         **/*/*           Average of 1s 5         17         Total (D+A)         22         Strong         24         Winnum         28         AM         PM           Average of 1s 5         17         Total (D+A)         22         Strong         24         Winnum         29         Pinax         Pinax <t< td=""><td>Established</td><td>13</td><td>(A) Prev</td><td>/ious</td><td>18</td><td></td><td></td><td>Check</td><td>one</td><td>Sample #</td><td>3</td><td>0</td><td></td><td></td></t<>	Established	13	(A) Prev	/ious	18			Check	one	Sample #	3	0						
Maximum         15         (C) Water Mac.         20         Stel         23         Test Temp.         27         * F / C         * F / C           Minimum         16         (D) Adjuster Mac.         21         MATL. HAS2.         Minimum         28         MA         PM           Vertage of 1515         17         Total (PA)         22         Novel 24         Minimum         29         Pas.         PM           Use Sawpto 10 %         26          Lite Sawpto 10 %         26          PM           Served to 50         26          Lite Sawpto 10 %         26          PM           Served to 50         26          Lite Sawpto 10 %         26          PM           Served to 50         31          Served to 50         30	Average	14	(B) Tod	lays	19		ſ	MATL. #	¥453	LIMS ID	2	6						
Minimum         16         (D) Adjusted Total (IC)         21         MATL #32         Monthum         Use and the second of the second	Maximum	15	(C) Waste	/ Misc.	20		:	Site	23	Test Temp.	27	<sup>0</sup> F/	°C	<sup>0</sup> F / <sup>0</sup> C				
Average of 1st 5         17         Tutal (0+A)         22         Biomoji         24         Viscolity         29         Pines         personal         persona         personal         personal <td>Minimum</td> <td>16</td> <td>(D) Adjusted</td> <td>Total (B-C)</td> <td>21</td> <td></td> <td>ſ</td> <td>MATL. #</td> <td><i>‡</i>452</td> <td>Minimum</td> <td>28</td> <td>A</td> <td>λM</td> <td>PM</td>	Minimum	16	(D) Adjusted	Total (B-C)	21		ſ	MATL. #	<i>‡</i> 452	Minimum	28	A	λM	PM				
Plant Volumetrics           LMS Semple No.         26         LMS Semple No.         26         LMS Semple No.         26         LMS Semple No.         20         LMS Semple No.         LMS Semple No. <td>Average of 1st 5</td> <td>17</td> <td>Total (E</td> <td>0+A)</td> <td>22</td> <td></td> <td>Ste</td> <td>orage</td> <td>24</td> <td>Viscosity</td> <td>29</td> <td>poise Pa.:</td> <td>es s.</td> <td>poises Pa.s.</td>	Average of 1st 5	17	Total (E	0+A)	22		Ste	orage	24	Viscosity	29	poise Pa.:	es s.	poises Pa.s.				
$ \begin{array}{                                    $					Pla	ant Vo	olume	etrics										
Sample No.         30	LIMS Sample ID N	».: <b>26</b>					LIM	S Sample	ID No.:	26								
Same Status (?%)         31         Image: Same Status (?%)         32         Image: Same Status (?%)         33         35         36         36	Sample N	o.: <b>30</b>						Sam	ple No.:	30								
Image     Mix Pargets     LOT/SUB     LOT/SUB <td>Sample Status (Y/I</td> <td>v): <mark>31</mark></td> <td></td> <td></td> <td></td> <td></td> <td>Sam</td> <td>nple Statu</td> <td>ıs (Y/N):</td> <td>31</td> <td></td> <td></td> <td></td> <td></td>	Sample Status (Y/I	v): <mark>31</mark>					Sam	nple Statu	ıs (Y/N):	31								
1 (2.6m)       33       34       Max. Gare. (Com)       33       35         34' (100m)       1       Ags. Bac (color)       33       35	Gradation Mix and AC Design Content Targets	LOT/SUB	LOT/SUB	LOT/SUB	LOT/SUB	Mix Volumetrics Design Targets			lix sign gets	LOT/SUB	LOT	/SUB <b>2</b>	LOT/SUB	LOT/SUB				
S4*(160m)       Ang Duk (orb)       Ang Duk (orb)       Ang Duk (orb)       Ang Duk (orb)         12*(125m)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)         38*(050m)       Ang Sp Orav (Ga)       Hu, B Nin,       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)         44 (475m)       Ang Sp Orav (Ga)       May Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)         45 (150m)       Ang Sp Orav (Ga)       May Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)         46 (150m)       Ang Sp Orav (Ga)       May Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)         46 (150m)       Ang Sp Orav (Ga)       May Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)         46 (150m)       Ang Sp Orav (Ga)       May Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)         46 (150m)       Ang Sp Orav (Ga)       May Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)         46 (150m)       Ang Sp Orav (Ga)       May Sp Orav (Ga)       May Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)       Ang Sp Orav (Ga)         400 (150m)       Ang Sp Orav (Ga)       St Vat A Sp Orav (Sa)       Mag Sp Orav (Ga)       Ang Sp Orav (Ga)	1" (25.0mm) <b>33</b>		34			Max. Gra	av. (Gmm)	mm) <b>33</b>			3	5						
127 (12.5m)     1     1     44 (3.5m)     1     1     1     1     1       24 (4.75m)     1     1     1     1     1     1     1       44 (4.75m)     1     1     1     1     1     1     1       46 (2.5m)     1     1     1     1     1     1     1       46 (2.5m)     1     1     1     1     1     1     1       47 (3.15m)     1     1     1     1     1     1     1       46 (1.5m)     1     1     1     1     1     1     1       46 (1.5m)     1     1     1     1     1     1     1       46 (1.5m)     1     1     1     1     1     1     1       46 (1.5m)     1     1     1     1     1     1     1       46 (1.5m)     1     1     1     1     1     1     1       470 (100 mm)     1     1     1     1     1     1     1       400 (0.5m)     1     1     1     1     1     1     1       20 (100 mm)     1     1     1     1     1     1       20 (100	3/4" (19.0mm)					Avg. Bul	lk (Gmb)											
38" (0.5mm)       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td< td=""><td>1/2" (12.5mm)</td><td></td><td></td><td></td><td></td><td>Agg Sp G</td><td>Grav (Gsb)</td><td>)</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	1/2" (12.5mm)					Agg Sp G	Grav (Gsb)	)										
#4 (47am)       Image: Construction of the sector of the sec	3/8" (9.5mm)					Hgt. @	N int.											
#6 (2.8mm)       Image: Construction of the second of the se	#4 (4.75mm)					Hgt @	N des.											
#6 (1:1am)       Image: Constraint of the second of the seco	#8 (2.36mm)					Gyrations	s @ Ndes.											
s0 (600 mm)       s. Gem @ Nde.       s. Gem @ Gem	#16 (1.18mm)					% Gmm	@ N int.											
#0 (200 mm)       MA I Vods @ Md       MA I Vods @ Md       Main Vod	#30 (600 mm)					% Gmm	@ N des.											
# r00 (150 m/n)	#50 (300 mm)					% Air Voi	oids @ No	J										
2200 (75mm)       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td< td=""><td>#100 (150 mm)</td><td></td><td></td><td></td><td></td><td>% VMA</td><td>@ Ndes.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	#100 (150 mm)					% VMA	@ Ndes.											
AC %       Dut/Asphal       Image: Construction of the second sec	#200 (75mm)					% VFA (	@ Ndes.											
37       Gmb @ Ndes.       Gmb @ Ndes. <td< td=""><td>AC %</td><td></td><td></td><td></td><td></td><td>Dust / /</td><td>Asphalt</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	AC %					Dust / /	Asphalt											
Qualified Technician Signature         Remarks: 38         Pba         Core 1 Station         Core 2 Station         Core 3 Gmb         Core 4 Station         Core 4 Station         Core 5 Station         Core 5 Station         Pba	37					Gmb @	Ndes.											
Remarks: 38       Pba       Image: second se	Qualified	Technician Signa	ture			G	ise											
Pbe       Core 1 Station       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +	Remarks: 38					Pt	ba											
Core 1 Station       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +						Pt	be											
Core 1 Gmb       Core 1 Gmb          Core 2 Station       +       +       +         Core 2 Gmb       36          Core 3 Station       +       +       +         Core 3 Gmb            Core 4 Station       +       +       +         Core 4 Station       +       +       +         Core 5 Gmb							Cor	e 1 Sta	tion	+		+	+	+				
Image: Core 2 Station       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +       +							Co	ore 1 Gr	nb									
Second         Core 2 Gmb         36           Core 3 Station         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +							Cor	e 2 Sta	tion	+		+	+	+				
So         Core 3 Station         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +						es	Co	ore 2 Gr	nb			36						
Core 3 Gmb         Core 3 Gmb           Core 4 Station         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         <						Cor	Cor	e 3 Sta	tion	+		+	+	+				
Core 4 Station         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +						/ay	Co	ore 3 Gr	nb									
Core 4 Gmb         Core 5 Station         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +          +          +						adw	Cor	e 4 Sta	tion	+		+	+	+				
Core 5 Station         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +         +          +         +         <						Ro	Co	ore 4 Gr	nb									
Core 5 Gmb							Cor	e 5 Sta	tion	+		+	+	+				
						Core 5 Gmb				ŧ								
Average Gmb							Ave	erage G	mb									
% Gmm						% Gmm												

675-030-18 MATERIALS 09/08

#### INSTRUCTIONS FOR COMPLETION OF ASPHALT PLANT DAILY REPORT OF QUALITY CONTROL

Erasures are not allowed. Mistakes shall have a single line through the original data with the correct entry written close to it . All corrections shall be initialed and dated. Use updated forms when they become available.

#### LIMS SINGLE SAMPLE LOGIN INFORMATION SECTION

- 1 Date Indicate the date this report was generated.
- 2 Page Number Indicate the page number of this report.
- 3 Fin. Project ID Enter the Financial Project ID on which the sampled mix was placed.
- 4 <u>Pay Item No.</u> Record the pay item number represented by the report. The pay item number must be written exactly as it appears on the project JOB GUIDE SCHEDULE. If report contains multiple pay-items record additional pay-tems in Remarks.
- 5 <u>Destination Lab ID</u> Enter the Lab ID (assigned by the Department) that will be receiving and performing the testing of the sample(s).
- 6 Manufacturer or Producer Enter the Company Name that actually manufactured or produced the material.
- 7 <u>Plant No.</u> Identification number assigned to each approved asphalt plant producing asphalt for the Department.
- 8 Design Mix No. Example: SP 97-0008, SP 02-1750A.
- 9 <u>Sampled By (TIN#)</u> Record the Technician Identification Number of the person who actually collected the sample.
- 10 <u>Date Sampled</u> Date and Time sample was taken, if no sample was taken, date material was produced. The format shall be Month/Day/Year at Hour:Minute (AM) or (PM). (e.g., 02/11/2004 2:30PM)
- 11 Intended use Indicate if mix is for Base, Structure, Friction Course etc, and Lane(s), (Mainline only R1, R2. L1, L2) (e.g., Structural, R1 or Base, L2)
- 12 <u>Performed By (TIN#):</u> Record the Technician Identification Number of the person who actually performs the sample testing.

#### GENERAL INFORMATION TEMPERATURE BOX

°F / °C (CIRCLE APPLICABLE UNITS)

- 13 <u>Established</u> Mix temperature established from the approved Mix Design.
- 14 <u>Average</u> Average mix temperature for the date the mix was sampled.
- **15** <u>Maximum</u> Maximum mix temperature for the date the mix was sampled.
- 16 <u>Minimum</u> Minimum mix temperature for the date the mix was sampled.
- 17 <u>Average of First Five Loads</u> Record the average temperature of the first five truckloads here. (Record the temperature of the first five loads and at least one load out of every five loads thereafter on the asphalt delivery tickets).
- 18 (A) Previous Quantity / Lot Quantity of mix placed before this report for THIS LOT, in tons.
- 19 (B) Today's Quantity / Lot Quantity of mix that is shipped to project in this LOT that is represented by this report, in tons.
- 20 (C) Waste / Misc. / Lot Record quantity amounts given to you from the road inspector that were not placed on the project (i.e. private, MOT, rejected mix, other) and quantity amounts for miscellaneous asphalt combined by this report.

#### THIS LOT TONS

- 21 NOTE: Identify individual misc. asphalt and waste quantities in the remarks section.
- 22 (D) Adjusted Total / Lot Today's total adjusted quantity of mix. (D = B C) Total Quantity / Lot - Total tonnage of mix for this material. (D + A)

#### ROTATIONAL VISCOSITY BOX (ASPHALT RUBBER ONLY)

(CIRCLE APPLICABLE UNITS)

- 1/24 Blend Type Place a check mark in the box for the type blend you are sampling. Note: This information needs to be reported under a separate LIMS sample and test result screen under material number 452/453.
- 25 Asphalt Rubber Grade Record the applicable type of Asphalt Rubber Grade, e.g., ARB-5, ARB-12, ARB-20, etc.
- 26 LIMS Sample ID The LIMS Sample ID is a field that is automatically generated by LIMS upon sample login. Once completing the login process record the LIMS Sample IDs here.
- 27-29 Test Results Record the temperature, time of day when test was made, and poises or pascal seconds reading for each test. Circle applicable units. Each viscosity test result must be entered into LIMS as an individual sample.

#### LIMS RESULT ENTRY INFORMATION SECTION

**Plant Volumetrics** 

**30 Sample No.** - Each report generated can have more than one sample number per day, per mix. A new sample number and report will be required at the beginning of each LOT, per mix. For a project with two or more plants producing asphalt, a new lot must be established and a new report must be written for mix produced at another plant. For Rotational Viscosity each sample number will correspond with the sublot from which it was sampled.

**NOTE:** Sample numbers cannot be duplicated when using the sample material number on the same project. To prevent duplication, samples should be numbered sequentially, according to mix type and traffic level. Sample numbers should be kept sequentially despite changes in an approved mix design or pay-item. Once a sample number is used for a material number on a project that number cannot be reused. Use a sample number ONLY when actually testing a random sample. Use the numbering sequence as follows:

EXAMPLES OF	SAMPLE	NUMBERS	
1	Гуре of Mix		Correct Numbering Sequences
	B-12.5		B2001Q, B2002Q, B2003Q, <-> B2999Q
	FC-9.5		1F001Q, 1F002Q, 1F003Q, <-> 1F999Q
	FC-12.5		2F001Q, 2F002Q, 2F003Q, <-> 2F999Q
	FC-5		5F001Q, 5F002Q, 5F003Q, <-> 5F999Q
	FC-6		6F001Q, 6F002Q, 6F003Q, <-> 6F999Q
	SP-9.5 TL-A		1A001Q, 1A002Q, 1A003Q, <-> 1A999Q
5	SP-9.5 TL-B		1B001Q, 1B002Q, 1B003Q, <-> 1B999Q
5	SP-9.5 TL-C		1C001Q, 1C002Q, 1C003Q, <-> 1C999Q
S	SP-9.5 TL-D		1D001Q, 1D002Q, 1D003Q, <-> 1D999Q
5	SP-9.5 TL-E		1E001Q, 1E002Q, 1E003Q, <-> 1E999Q
S	P-12.5 TL-A		2A001Q, 2A002Q, 2A003Q, <-> 2A999Q
S	P-12.5 TL-B		2B001Q, 2B002Q, 2B003Q, <-> 2B999Q
S	P-12.5 TL-C		2C001Q, 2C002Q, 2C003Q, <-> 2C999Q
S	P-12.5 TL-D		2D001Q, 2D002Q, 2D003Q, <-> 2D999Q
S	P-12.5 TL-E		2E001Q, 2E002Q, 2E003Q, <-> 2E999Q
S	P-19.0 TL-A		3A001Q, 3A002Q, 3A003Q, <-> 3A999Q
S	P-19.0 TL-B		3B001Q, 3B002Q, 3B003Q, <-> 3B999Q
S	P-19.0 TL-C		3C001Q, 3C002Q, 3C003Q, <-> 3C999Q
S	P-19.0 TL-D		3D001Q, 3D002Q, 3D003Q, <-> 3D999Q
S	P-19.0 TL-E		3E001Q, 3E002Q, 3E003Q, <-> 3E999Q

31 Sample Status - Do all sample characteristics comply with Table 334-5? Yes or No.

32 Lot / Sublot - Record appropriate Lot number and Sublot number on all reports. Number the Lots sequentially. (Use LOT and sublot number seperated by a dash. e.g., 4-2 represents LOT 4 Sublot 2)

33 Mix Design Targets - Record data from the Job Mix Formula (JMF) on the approved Mix Design.

34 Extraction Results - List extraction gradation and AC content results in appropriate blanks for each sublot. Results from previous Sublots samples should not be recorded again. (Record all results to two decimal places).

#### VOLUMETRICS

35 Volumetric Data - List volumetric data in appropriate blanks for each sublot. Results from previous sublots should not be recorded again.

FDOT Forms and Reports CTOP Aspmant Course - January 2009 Update 36 Roadway Core Gmb Data - Record individual specific gravity results (Gmb) from the corresponding

roadway core and the average of the five. Round to the nearest three decimal places (Example: 2.5867 rounds to 2.587). Calculate the %Gmm to the nearest 0.001 as follows: Average Gmb / Gmm \* 100 and report to the nearest 0.01, (Example: 91.995% is reported as 92.00%). Note: Record all five roadway core specific gravity results on the report with the corresponding

random sample for that sublot. Identify the station location for each core.

#### **MISCELLANEOUS**

- 37 <u>Qualified Technician Signature</u> To be signed by the Qualified Asphalt Plant technician performing the sample testing.
- 38 <u>Remarks</u> Comments pertinent to the production of the asphalt mix which are not shown elsewhere on the worksheet, e.g., 'Lot 6 closed due to mix design target change', 'baghouse caught fire'
   Breakdown of waste tonnage i.e., 25.0 Misc. Asphalt

+ <u>25.0 Waste</u>

#### 50.0 Total

<u>NOTE: It is very important to have good communication between the Asphalt Plant Inspector and the Asphalt Road Inspector. Reports should be delivered to the QC technician at the plant no later than one day after completion of the current days production.</u>

State Of Florida Department Of Transportation

				1		•						09/08					
			Ası	halt Plant -	Verification	Report											
Broiget ID -		<u></u>			<u></u>	<u></u>		. <i></i>		<u></u>		<u></u>					
Sample Level: V			Pay					IVIB									
Destination LabID:			Manf	r or Prod		Plant No.:											
Design Mix No :			Warm			Sampled Bv:											
Design Mix No			Inton	dod Lloo:				Porfo	rmod By:								
			Ou	ant Ren				Unit of	Measure: TN								
		Plant Volur	netrics			1		Offic of									
	LIMS ID:					l	Rotati	onal Vi	iscosity for	r Asphalt F	lubber Bind	der					
Da	te Sampled:					Riond Typ		Asphalt F	Rubber Grade								
	Date tested:					Check one	÷	•	1		1						
	Sample No.:						<u> </u>	IMS ID									
Gradation and AC Content	Design Targets	LOT/SUB	LOT/SUB	LOT/SUB	LOI/SUB	MATL. # Site	453	Test Temp.		<sup>0</sup> F / <sup>0</sup> C		<sup>0</sup> F / <sup>0</sup> C					
1" (25.0mm)						MATL. #	452	num osity		AM		PM					
3/4" (19.0mm)	· · · · · · · · · · · · · · · · · · ·					Storage		Minir Visco		poises Pa.s.		poises Pa.s.					
1/2" (12.5mm)						· · · · · · · · · · · · · · · · · · ·	Pay	Factor	'S	© OGF	<b>C</b> O Su	perpave					
3/8" (9.5mm)							3/8	3 Sieve	No.:4 Sieve	No.:8 Sieve	A/C Content	CPF					
#4 (4.75mm)																	
#8 (2.36mm)								Sam	ple Statu	s(Y/N)							
#16 (1.18mm)								Tempe	erature Ve	rification	°F/°C						
#30 (600 μm)						Estal	blishe	d Mix T	emperature	)							
#50 (300 μm)							Date	9	Te	emperature	Loa	ad No.:					
#100 (150 μm)																	
#200 (75μm)	• • • • • • • • • • • • • • • • • • • •																
AC %																	
Gmm																	
Avg. Bulk (Gmb)																	
Agg. Spec. Grav.																	
Hgt. @ N int.	· · · · · · · · · · · · · · · · · · ·																
Hgt @ N des.																	
Gyrations @ Ndes.																	
% Gmm @ N int.	· · · · · · · · · · · · · · · · · · ·																
% Gmm @ N des.																	
% Air Voids @ Nd																	
% VMA @ Ndes.																	
% VFA @ Ndes.																	
Dust / Asphalt																	
Gmb @ Ndes.																	
Gse																	
Pba																	
Pbe																	
Roadway Core 1 G	mb : month / day																
Roadway Core 2 G	mb : month / day																
Roadway Core 3 G	mb : month / day	,															
Roadway Core 4 G	mb : month / day					Qualif	ied Te	chniciar	n Signature								
Roadway Core 5 G	mb : month / day	Reports	стоя	Asphalt Cours	- January 200		arks:			Page 12	of 52						
Average Roadwa	ay Core Gmb		0,0,							. <del>ugo . 2</del>	-,						
% Gmm						1											

675-030-19 MATERIALS State Of Florida Department Of Transportation

675-030-19 MATERIALS 09/08

			Ası	ohalt P Pag	'lant - ' je No.	Verification I 1 of	Report									
Project ID.: 2				Pay Item	No.: 3					Material	ID.: 123L					
Sample Level: V			Resol	ution Sam	nple: N											
Destination LabID: 4			Ν	Manfr or F	Prod: 5					Plant I	No.: 6					
Design Mix No.: 7										Sampled	By: <b>8</b>					
			I	ntended l	Jse: 9					Performed	By: <b>10</b>					
			·····	Quant. F	Rep: 11		(			Unit of Meas	it of Measure: <b>TN</b>					
	1	Plant Volur	netrics				Ro	otatio	onal Vi	scosity for	Asphalt R	ubber Binc	ler			
~	LIMS ID:	12							· · · · · · · · · · ·		<u></u>					
Da	te Sampled:	13					Blend Type Asphalt Rubber Grade 22									
	Dale Tested: Sample Mo	14					Check one	<u> </u>		4	2					
	Sample NO.: Mix	LOT/SUB	LOT/SUB	LOT	/SUB	LOT/SUB	ΜΔΤΙ #45			1.	<b>.</b>					
Gradation and AC Content	Design Targets	16		_011			Site 20	0	Test Temp		<sup>0</sup> F / <sup>0</sup> C		<sup>0</sup> F / <sup>0</sup> C			
1" (25.0mm)	17			1	8		MATL. #45	2	imum sosity	23	AM		PM			
3/4" (19.0mm)							Storage 2'	1	Min Visc	24	poises Pa.s.		poises Pa.s.			
1/2" (12.5mm)							Pay	y Fa	actors	25	0 <b>0G</b> F	C O Su	perpave			
3/8" (9.5mm)								3/8	8 Sieve	No.:4 Sieve	No.:8 Sieve	A/C Content	CPF			
#4 (4.75mm)																
#8 (2.36mm)									Sam	ple Status	s(Y/N)	26	<b>)</b>			
#16 (1.18mm)							_		Tempe	rature Ve	rification	°F∕°C				
#30 (600 μm)							Established Mix Temperature 27									
#50 (300 μm)							Date Temperature					Loa	a No.:			
#100 (150 μm)								28 			29	_	50			
#200 (75μm)								┢					-			
								╀								
Ava Bulk (Cmb)								┢								
Ang Spec Grav								╀			+					
Hat @ N int								╀			+					
Hat @ N des								╀					<b> </b>			
Gyrations @ Ndes.								┢			+					
% Gmm @ N int.								╀			1					
% Gmm @ N des.								┢			1					
% Air Voids @ Nd								╞			1					
% VMA @ Ndes.								┢								
% VFA @ Ndes.								T								
Dust / Asphalt								T								
Gmb @ Ndes.								Τ								
Gse								Τ								
Pba																
Pbe	•															
Roadway Core 1 Gn	nb : month / day			1	9			•			+		•			
Roadway Core 2 Gn	nb : month / day															
Roadway Core 3 Gn	nb : month / day										31					
Roadway Core 4 Gn	nb : month / day					Qualified Technician Signature						_				
Roadway Core 5 Gn	nb : month / day DOT Forms and	Reports	CTOF	Aspha	t Cours	e - Januarv 200	9 Update	ks:	32		Page 14	of 52				
Average Roadwa	y Core Gmb						-, <b>-</b>									
% Gmm																

#### INSTRUCTIONS FOR COMPLETION OF ASPHALT PLANT VERIFICATION REPORT

Erasures are not allowed. Mistakes shall have a single line through the original data with the correct entry written close to it . All corrections shall be initialed and dated. Use updated forms when they become available.

# LIMS SINGLE SAMPLE LOGIN INFORMATION SECTION

- 1 **<u>Page Number</u>** Indicate the page number of this report.
- 2 Fin. Project ID Enter the Financial Project ID on which the sampled mix was placed.
- 3 <u>Pay Item No.</u> Record the pay item number represented by the report. The pay item number must be written exactly as it appears on the project JOB GUIDE SCHEDULE.
- 4 <u>Destination Lab ID</u> Enter the Lab ID (assigned by the Department) that will be receiving and performing the testing of the sample(s).
- 5 <u>Manufacturer or Producer</u> -Enter the Company Name that actually manufactured or produced the material.
- 6 <u>Plant No.</u> Identification number assigned to each approved asphalt plant producing asphalt for the Department.
- 7 Design Mix No. Example: SP 97-0008, SP 02-1750A.
- 8 <u>Sampled By (TIN#)</u> Record the Technician Identification Number of the person who actually collected the sample.
- Intended use Indicate if mix is for Base, Structure, Friction Course etc, and Lane(s), (Mainline only R1, R2. L1, L2) (e.g., Structural, R1 or Base, L2)
- 10 <u>Performed By (TIN#):</u> Record the Technician Identification Number of the person who actually performs the sample testing.
- 11 <u>Quantity</u> This represents the <u>TOTAL</u> LOT quantity (excluding waste) and should be filled in <u>ONLY</u> when the Lot is completed.

# PLANT VOLUMETRICS SECTION

- 12 <u>LIMS Sample ID</u> The LIMS Sample ID is a field that is automatically generated by LIMS upon sample login. Once completing the login process record the LIMS Sample IDs here.
- **13** <u>**Date Sampled**</u> Date and Time sample was taken, if no sample was taken, date material was produced. (e.g., 7/1/2004 at 10:00pm)
- 14 Date Tested Record the date of Verification. (e.g., 7/1/2004)
- 15 <u>Sample No.</u> Each sample number will correspond to the Quality Control sample number for each sublot tested.

# (e.g., 2B001V corresponds to 2B001Q)

**NOTE:** Sample numbers cannot be duplicated when using the sample material number on the same project. To prevent duplication, samples should be numbered sequentially, according to mix type and use. Sample numbers should be kept sequentially despite changes in an approved mix design or pay-item. Once a sample number is used for a material number on a project that number cannot be reused. Use the numbering sequence as follows:

EXAMPLES OF	SAMPLE NUMBERS
Type of Mix	Correct Numbering Sequences
B-12.5	B2001V, B2002V, B2003V, <-> B2999V
FC-9.5	1F001V, 1F002V, 1F003V, <-> 1F999V
FC-12.5	2F001V, 2F002V, 2F003V, <-> 2F999V
FC-5	5F001V, 5F002V, 5F003V, <-> 5F999V
FC-6	6F001V, 6F002V, 6F003V, <-> 6F999V
SP-9.5 TL-A	1A001V, 1A002V, 1A003V, <-> 1A999V
SP-9.5 TL-B	1B001V, 1B002V, 1B003V, <-> 1B999V
SP-9.5 TL-C	1C001V, 1C002V, 1C003V, <-> 1C999V
SP-9.5 TL-D	1D001V, 1D002V, 1D003V, <-> 1D999V
SP-9.5 TL-E	1E001V, 1E002V, 1E003V, <-> 1E999V
SP-12.5 TL-A	2A001V, 2A002V, 2A003V, <-> 2A999V
SP-12.5 TL-B	2B001V, 2B002V, 2B003V, <-> 2B999V
SP-12.5 TL-C	2C001V, 2C002V, 2C003V, <-> 2C999V
SP-12.5 TL-D	2D001V, 2D002V, 2D003V, <-> 2D999V
SP-12.5 TL-E	2E001V, 2E002V, 2E003V, <-> 2E999V
SP-19.0 TL-A	3A001V, 3A002V, 3A003V, <-> 3A999V
SP-19.0 TL-B	3B001V, 3B002V, 3B003V, <-> 3B999V
SP-19.0 TL-C	3C001V, 3C002V, 3C003V, <-> 3C999V
SP-19.0 TL-D	3D001V, 3D002V, 3D003V, <-> 3D999V
SP-19.0 TL-E	3E001V, 3E002V, 3E003V, <-> 3E999V

16 <u>Lot / Sublot</u> - Record appropriate Lot number and Sublot number on all reports (even if no tests is run). Number the Lots sequentially according to material number, even if there is no change in the mix design. NOTE: DO NOT record extraction results from previous reports.

- 17 <u>Mix Design Target</u> Record data from the Job Mix Formula (JMF) on the approved Mix Design.
- 18 <u>Plant Volumetrics</u> List extraction/ gradation and volumetric results in appropriate blanks for each sublot. Results from previous Sublots samples <u>should not</u> be recorded again. (Record all results to two decimal places).
- 19 <u>Roadway Core Gmb Data</u> Record individual specific gravity results (Gmb) from the corresponding roadway core, and the average of the five. Round to the nearest three decimal places (Example: 2.5867 rounds to 2.587). Calculate the %Gmm to the nearest 0.001 as follows: Average Gmb / Gmm \* 100 and report to the nearest 0.01, (Example: 91.998% is reported as 92.00%).

Note: Record all five roadway core specific gravity results on the report with the corresponding random sample for that sublot.

# ROTATIONAL VISCOSITY BOX (ASPHALT RUBBER ONLY)

(CIRCLE APPLICABLE UNITS - PERFORM TEST ONCE PER LOT)

- 20/21 <u>Blend Type</u> Place a check mark in the box for the type blend you are sampling. Note: this information needs to be reported under a separate CQR sample and test result screeping under material number 453B prof 452B.52 (The COPY command can be used for most sample data in CQR)
- 22 <u>Asphalt Rubber Grade</u> Record the applicable type of Asphalt Rubber Grade, e.g., ARB-5, ARB-12, ARB-20,

etc.

23-24 <u>Test Results</u> - Record the temperature, time of day when test was made, and poises or pascal seconds reading for each test. Circle applicable units. Note: Record additional test results in the remarks section.

# PAY FACTORS SECTION

- 25 <u>Pay Factors</u> Enter the pay factors for each applicable property and the Composite Pay Factor (CPF) for the LOT from the Pay Factor Calculations Worksheet. Using the boxes select OGFC (Opened Graded Friction Course) or Superpave and click the circle.
- 26 Sample Status Is the Composite Pay Factor (CPF) greater than or equal to 0.90? Yes or No.

# **TEMPERATURE VERIFICATION**

#### (CIRCLE APPLICABLE UNITS)

- 27 <u>Established Mix Temp.</u> Mix temperature established on the approved Mix Design.
- 28 Date Record date of Temperature Verification.
- 29 <u>Temperature</u> Record temperature from various trucks throughout LOT, according to frequency set forth in CPAM Section 5.1 Section 11.3
- 30 Load No. Record Load No. of truck that the Temperature was taken, according to frequency set forth in CPAM Section 5.10 Section 11.3

#### **MISCELLANEOUS**

- 31 <u>Qualified Technician Signature</u> To be signed by the Qualified Asphalt Plant technician performing the sample testing.
- 32 <u>Remarks</u> Comments pertinent to the production of the asphalt mix which are not shown elsewhere on the worksheet, any deficiencies noted at the plant or lab and any corrective actions taken.

# NOTE: It is very important to have good communication between the Asphalt Plant Inspector and the Asphalt Road Inspector. Reports should be delivered to the verification technician at the plant no later than one after completion of the Lot.

State Of Florida Department Of Transportation

						5		Depai		i manspor	lation										09	1/06
				Date	Asph	alt f	Roadway - D	)aily	Report Page N	of Quali Io.	ty Coi of	ntrol										
Fin. Proiec	t ID:	<u></u>	Mat	terial No.	/ ID:	<u></u>	<u></u>	Tvp	vpe of Mix: Mix Design No.						<u></u>	·····						
Intended	use:			F	Plant No.:			Lot No.: Intender							Lot Size:							
Sublot	Lanes / Lif	t # of #		St	ation T	o Si	tation		Loads Linear Ft			Width	n			Tons			Sprea	ad		
	<u></u>			+	_		+											<u></u>		<u></u>		
				+	_		+												<u> </u>			
				+	_		+															
				+	_		+															
				+	_		+															
				+	_		+												<u> </u>			
				+	_		+												<u> </u>			
				+	_		+															
				+	_		+															
				+	_		+															
				+	_		+															
				+	_		+															
				+	_		+															
Pay	Re	cord Of E	Bitumin	ous M	aterial	S			Av. T	erage Sj arget Sj	oread oread	Rate :										
Grade	e Of Asphalt											Pa	ving	Com	plet	ed			<u></u>			
FDOT	Calibration								Pay	/ Item			ĪĪ	<u> </u>				Τ				<u></u>
В	eginning IN								Meas	ured In		Tons				SY			: Th	nis Lo	t	
(	Gallons							i	Prev.	Adj. Tot.			<u></u>			<u></u>	<u></u>		<u></u>	<u></u>	<u></u>	<u></u>
	Ending IN								Тс	days												
C	Gallons								Т	otal												
Time of Da	y after Unloading		AM PM			AM PM		AM PM	W	aste												
Tem	perature F								Adj	Total												
Net	Hot Gallons								L	OT Densi	ty Cal	culatio	ns				Temp	era	ture	<b>F</b>		
Corre	ction Factor									Densit	y Req	uired			Est	ablis	hed	T	<u></u>	<u></u>	<u></u>	<u></u>
Prev. Gal	lons @ 60F								Prev	. Tons					A	vera	ge					
Today Gal	lons @ 60F								To	days					Ma	axim	um					
Accum. Gall	lons @ 60F								Т	otal					Mi	inimu	ım					
SY	Covered									No Dens	sity Re	quired		Av	/era	ge o	f 1st 5					
Spre	ead Rate Gal/SY								Prev	. Tons												
									Тс	days												
									Т	otal												

Qualified Technician ID# (TIN)

Remarks:

FDOT Forms and Reports

CTQP Asphalt Course - January 2009 Update

Page 20 of 52

675-030-20 MATERIALS State Of Florida Department Of Transportation

675-030-20
MATERIALS
09/06

			A Date	sphalt Roadway	/ - Daily	Report of Quality Page No. 2	Control						
Fin. Project ID:	: 3		Material No. / ID	Material No. / ID: 4 Typ			pe of Mix: <mark>5</mark> Mix Design N			: <b>6</b>			
Intended use:	7		Plan	t No.: <b>8</b>		Lot No.: 9							
Sublot	Lanes / Lift	# of #	Station 1	o Station	Load	ls Linear Ft.	Width	SY	Tons	Spread			
11	12		13		14	15	16	17	18	19			
	Red	cord Of B	ituminous Mate	rials		Average Spr	Total=	20	21				
Pay Iter	m No.	24	<u></u>		<u></u>	Target Spr	ead Rate =		23				
Grade Of	Asphalt	25					Pav	ing Comp	leted	<u> </u>			
FDOT Ca	alibration	26				Pay Item	40	ĪĪĪ					
Beginning	Inch / MM	27				Measured In	Tons		SY	This Lot			
Gallons	/ Liters	28				Prev. Adj. Tot.	<u></u> 41			52			
Ending Ind	ch / MM	29				Todays	42						
Gallons	/ Liters	30				Total	43						
Time of Day af	fter Unloading	31		AM PM	AM PM	Waste	44						
Temperatu	ire °C / °F	32				Adj. Total	45						
Net (H Gallons /	Net (HOT) 33 Gallons / Liters		LOT Density Calculations		s	Tempera	ture °F / °C						
Correction	Correction Factor 34			Density	Required	E	Established	53					
Prev. Gallo @ 60°F	Prev. Gallons / Liters @ 60°F / 15°C 35				Prev. Tons	46		Average	54				
Today's Gall @ 60°F	Foday's Gallons / Liters @ 60°F / 15°C 36			Todays	47		Maximum	55					
Accum. Gallo @ 60°F	ons / Liters / 15°C	37				Total	48		Minimum	56			
SY / SM (	Covered	38				No Densit	y Required	Ave	erage of 1st 5	57			
Spread Gal/SY	l Rate L/SM	39				Prev. Tons	49						
			·			Todays	50						
				58		Total	51						

Qualified Technician ID# (TIN)

Remarks: 59

FDOT Forms and Reports

CTQP Asphalt Course - January 2009 Update

#### INSTRUCTIONS FOR COMPLETION OF THE ASPHALT ROADWAY DAILY REPORT OF QUALITY CONTROL

Erasures are not allowed. Mistakes shall have a single line through the original data with the correct entry written close to it . All corrections shall be initialed and dated. Use updated forms when they become available.

#### **INFORMATION SECTION**

- 1 Date Enter the date this report was generated.
- 2 Page Number Indicate the page number of this report.
- 3 Fin. Project ID Enter the Financial Project ID on which the sampled mix was placed.
- 4 Material No. A four-character code obtained from the JOB GUIDE SCHEDULE that identifies each material / test.
- 5 Type of Mix Indicate asphalt mix type, e.g., FC-6, SP 12.5, B-12.5.
- 6 Mix Design No. Example: SP 97-0008, SP 02-1750A.
- 7 Intended use Indicate if mix is for Base, Structure, Friction Course etc, and Lane(s), (Mainline only R1, R2. L1, L2) (e.g., Structural, R1 or Base, L2)
- 8 Plant No. Enter the Plant No. from which the mix is being produced.
- 9 Lot # Enter the Lot represented by this report.
- 10 Intended Lot Size Enter the intended lot size (2000 or 4000).

#### **RECORD OF MIX PLACEMENT**

- 11 <u>Sublot #</u> Enter the Sublot # from which the spread rate was taken.
- 12 Lanes / Lift # of # The lane where the mix was placed. Right or left should be determined by standing on the centerline of the median, facing the direction of increasing stations, and number the lanes L1, L2, L3, etc, or R1, R2, R3 etc. This indicates that lane L1 is the first lane to the left of the centerline. Center lanes should be identified with the letter C. Shoulders can be identified IL (inside left), OL (outside left), IR (inside right) and OR (outside right), RTL (right turn lane), LTL (left turn lane). Record the lift # of # here. ("L1 / 1 of 2" would indicate Lane 1 lift 1 of 2)
- **13** <u>Station to Station</u> The beginning and ending stations of the reports construction. With multiple lanes being placed, this may vary and more than one line may be used.

For example: 18 + 50 Ending Station

<u>13 + 20</u> Beginning Station

530 feet Distance

- 14 Loads The load number(s) from the delivery tickets of the mix placed in this area.
- 15 Linear Feet / Meters The number of linear feet / meters in each area.
- 16 Lane Width The width of the lane being placed, in feet or meters. If the width is not constant enter an average width.
- 17 SY / SM The number of square yards in each area. Record to the hundredth.
- **18 Tons / MT** The number of tons in each area. Record to nearest hundredth.
- 19 Spread Monitor the mix spread rate at the beginning of each day's production, and as needed to control the operations, at a minimum of once per 200 tons (200 metric tons) placed to ensure that the spread rate is within 5% of the target spread rate. Note the spread rate on the form for each 200 tons (200 metric tons). Record each entry to the tenth. Also provide average spread for the mix being placed. Units: lb/yd2, kg/m2.
- **20 <u>Total Square Yards</u>** Enter the total square yards for this days production.
- 21 <u>Total Tons</u> Enter the total tons for this days production.
- 22 <u>Average Spread Rate</u> The average spread for the report. Total for today's production. If density is not required, record average spread for mix being placed. Units: lb/yd2, kg/m2
- 23 <u>Target Spread Rate</u> Refer to the typical section of the plans for your project. For tolerances refer to section 330-2.2. FDOT Forms and Reports CTQP Asphalt Course - January 2009 Update Page 22 of 52

#### **RECORD OF BITUMINOUS MATERIALS BOX**

- 24 <u>Pay Item No.</u> Record the pay item number for this shot of liquid asphalt.
- **25** <u>**Grade of Asphalt**</u> Type liquid being used i.e., RS, AEP, AC, ARB, etc.
- 26 FDOT Calibration Tank Number Obtain from approved F.D.O.T calibration chart, match serial number from frame or tank of distributor.
- 27 <u>Beginning Measurement</u> Distributor tank Measurement to the nearest 1/16 inch or nearest millimeter at beginning of production or every time tank is refilled.
- 28 Gallons / Liters Record the amount of liquid in the tank at the beginning of production by using the certified calibration chart
- 29 <u>End Measurement</u> Distributor tank measurement at end of production to the nearest 1/16 inch or nearest millimeter.
- 30 Gallons / Liters Record the amount of liquid in the tank at the end of production by using the approved calibration chart.
- 31 <u>Time of Day</u> Record the time when ending readings were taken. Circle AM or PM.
- 32 <u>Temperature</u> Record the temperature of the liquid asphalt in the distributor.
- 33 <u>NET Hot Gallons / Liters</u> Record the measured amount of liquid asphalt used. Net Hot Gallons (or Liters) equals Item #28 minus Item #30.
- 34 <u>Correction Factor</u> Obtain this from the appropriate chart for this liquid asphalt. (See Construction Training Qualification Program (C.T.Q.P.) Asphalt Paving Level 2 manual).
- 35 Previous Gallons / Liters @ 60° F / 15° C Adjusted total quantity of liquid asphalt placed before this report, Record to the hundredth.
- 36 Today's Gallons / Liters @ 60° F / 15° C Calculate and record, Item 33 x Item 34. Record to the hundredth.
- 37 Accumulated Gallons / Liters @ 60° F / 15° C Calculate and record, Item 35 + Item 36. Record to the hundredth.
- 38 <u>SY / SM Covered</u> Compute and enter the area covered by the liquid asphalt.
- 39 <u>Spread Rate</u> Item #36 / Item #38. Circle either GAL/SY or L/SM. Note: Determine the rate of application at the beginning of each day's production, and as needed to control the operation, a minimum of twice per day. Control the rate within +or- 0.01 gallons per square yard.

#### PAVING COMPLETED BOX

- 40 <u>Pay Item No.</u> Record the pay item number represented by the report. The pay item number must be written exactly as it appears on the project JOB GUIDE SCHEDULE.
- 41 <u>Previous Quantity</u> Adjusted total quantity of mix placed before this report, In Tons, square yards / square meters for the applicable pay-item. Record to the hundredth.
- 42 <u>Today's Quantity</u> Quantity of mix shipped to project that is represented by this report under the applicable pay-item, in tons, square yards / square meters for this Lot. Record to the hundredth. NOTE: If the area to be placed requires more than one lift, the square yards / square meters reported must be prorated as follows:

#### English Units

Area being placed=41,438.62sy

**Example:** First Lift (1.25") of a two inch (2") item:

41,438.62 sy x (1.25" / 2.00") = 25,899.14 sy

Example: The second lift would then be 0.75" (2" - 1.25") of the total 2" item:

41,438.62 sy x (0.75" / 2.00") = 15,539.48 sy

#### Metric Units

#### Area being placed=41,438.62sm

**Example:** First Lift (31mm) of a 50mm item:

41,438.62 sm x (31mm / 50mm) = 25,691.94 sm

#### Example: The second lift would then be 19mm (50mm - 31mm) of the total 50mm item:

41,438.62 sm x (19mm / 50mm) = 15,746.67 sm

- 43 Total Quantity Add items #41 and #42. Record to the hundredth.
- 44 <u>Waste/Misc.</u> The amount of material delivered but not placed for pay on the project for the day recorded as tons / metric tons and square yards / square meters and quantity amounts from miscellaneous asphalt. (i.e. Private, MOT, Rejection of Poor Quality, Other.)
- 45 Adjusted Total Total adjusted quantity of mix. Subtract Item #44 from Item #43.

#### LOT DENSITY CALCULATIONS

#### DENSITY REQUIRED

- 46 Previous Tons Total quantity of mix placed before this report that required density, In Tons for THIS LOT.
- 47 Today's Tons Total quantity of mix placed that is represented by this report that required density, In Tons for THIS LOT.
- 48 Total Quantity Add items #46 and #47. Record to the hundredth. After completion of the LOT restart Previous Tons at 0.

#### NO DENSITY REQUIRED

- 49 **Previous Tons** Total quantity of mix placed before this report that required NO density, In Tons for THIS LOT.
- 50 <u>Today's Tons</u> Total quantity of mix placed that is represented by this report that required NO density, In Tons for THIS LOT. Note: Miscellaneous asphalt will not be shown here.
- 51 <u>Total Quantity</u> Add items #49 and #50. Record to the hundredth. After completion of the LOT restart Previous Tons at 0.

#### THIS LOT

52 This Lot - (optional) - it is intended to assist in tracking the progress of the lot and aid in random sampling within the lot.

#### **TEMPERATURES**

- 53 <u>Established</u> Mix temperature established on the approved Mix Design.
- 54 Average Average mix temperature taken at the roadway for the date the mix was sampled.
- 55 Maximum Maximum mix temperature for the date the mix was sampled.
- 56 Minimum Minimum mix temperature for the date the mix was sampled.
- 57 <u>Average of First Five Loads</u> Record the average temperature of the first five truckloads here. (Record the temperature of the first five loads and at least one load out of every five loads thereafter on the asphalt delivery tickets.)

#### **MISCELLANEOUS**

- 58 <u>Qualified Technician ID#</u> Record the Qualified Asphalt Roadway Inspector TIN (First nine characters of Florida ID# / Drivers License Number).
- 59 <u>Remarks</u> Examples of remarks "Time Began:", "Time Completed:" (Note time and causes of interruptions), "No density required, initial layer of asphalt base over soil subgrade, overbuild course with variable thicknesses less than one inch, "No density required, intermediate course less than one inch, "No density required, limits of project is less than 1000 feet, see Standard Specification 334-5.1", "Paving after or during rain", "Night Paving", "Areas with problems and corrective actions", "Breakdown of waste tonnage"., 25.0 Misc. Asphalt

+ 25.0 Waste

50.0 Total

More specific descriptions of where the material was placed can also be shown here - Example: L2 126 + 43 to 128 + 57, R4 1288 + 32 to 1333 + 00, C 132 + 25 to 139 + 45, etc.

**NOTE**: <u>It is very important to have good communication between the Asphalt Plant Inspector and the</u> Asphalt Road Inspector. <u>Reports should be delivered to the QC technician at the plant no later</u> than one day after completion of the current days production. State of Florida Department of Transportation Asphalt Roadway - Daily Report of Quality Control

									A	sphall Roadwa	ay - Dally Repor		Ly Control							12/08
	FIN ID (P	roject	#)							LOT #	1							Email F	Form Feedba	ick to:
-			TIN#							Mix Design #								SM-Aspha	altForms@do	ot.state.fl.us
	Constant Wid	th Are	eas	•														E	ASE ONLY	
#	Date Paved	Sub Lot	Truck Load #'s	Intended Use	Density ?	Lane	Desc.	L # c	.ift of #	Start Paving at Station	End Paving at Station	Length (FT)	Width (FT)	Area Paved (SY)	Quantity (TN)	Actual Spread Rate (LB/SY)	Target Spread Rate (LB/SY)	Individual Lift Thickness (in)	Total Thickness (in)	Prorated Base (SY)
	Varied Width Areas																			

675-030-20A MATERIALS 12/08

Image: state		Intended Use	Pay Item #	Previous Total (Tons)	LOT Total (Tons)	Cumulative Total (Tons)	Previous Total (SY)	LOT Total (SY)	Cumulative Total (SY)	
	F									
Image: state	F									-
M.P.M. Munok (M. Marchi, M.	F									
Image: state										
Image: constraint of the second sec	F									- p
Image: state	F									prorate
Image: state	F									
Image: second	(papae									-
Image: constraint of the second sec	ms (if ne									-
Vertication         Image: state in the state in th	t Pay Ite									-
Image: state of the s	A									-
Image: state of the s										
Image: second	F									-
Image: second										-
Image: second										
Image: second	F									-
Image: second	F									- ted
Image: second										t prora
Alt Pay lense         Image: Constraint of the const	(pe									<u>e</u>
At Pay Iam       A	(if neede									
At Part Part Part Part Part Part Part Par	ay Items									-
	Alt Pa									-
	F									
	F									1

	LOT Total (Tons)
Density Testing	0.00
No Density Testing *	0.00
Total Tonnage	0.00

			Asph Pa	alt Roadway - ige No.	Verification Re	port						
Fin. Project ID:			Material No.	·	Type of Mix:		Mix	Design No.:				
Intended use:			Plant No.	:	Lot No.:	Intended Lot Size:						
			Veril	fication of Spi	read Rate	Verification Results Y/N						
Date	Sublot	Lane / Lift # of	# St	ation To Stati	on Loads	Linear Ft	Width	SY	Tons	Spread		
				+	+							
				+	+							
				+	+							
				+	+							
				+	+							
				+	+							
				+	+							
				+	+					ļ		
				+	+							
				+	+							
				+	+							
·····	·····			+	+	······································		·····	·····			
		Record Of Bitun	ninous Mater	rials		Verificat	ion of Est Verificatio	ablished <sup>-</sup> n Results	Temp. Y/N	<u> </u>		
Date						Date	Sub.	Load No	o. Te	mp.	•	
Sublot												
Pay Item No	).											
Grade Of Aspl	nalt											
FDOT Calibrat Tank No.	tion											
Beginning	IN											
Gallons												
Ending	IN											
Gallons												
Time of Day after U Temperature	nloading F	AM PM	AM PM	AM PM	AM PM							
Net Hot Gall	ons											
Correction Fac	ctor											
Gallons @ 60	)F											
SY Covered												
Spread Rate	Gal/SY											

Remarks

Qualified Technician ID# (TIN)

					S	tate Of Flor	rida Depa	artment Of	Transport	tation				e N	75-030-21 ATERIALS 09/06
					As	phalt Roa	adway	- Verifica	ation Re	eport					
						Page	No	1 of	· · · · · · · · · · · · · · · · · · ·						
Fin. Project ID:	2			Mat	terial No	o.: <b>3</b>		Type of N	1ix: <b>4</b>		l	Mix Design No	o.: <b>5</b>		
Intended use:	6			Pla	ant No.:	7		Lot No.: 8			Intende	ed Lot Size: 9			
					Ve	rification	n of Sp	read Rat	е		V	erification R	esults Y/	'N <mark>20</mark> -	
Date	Sublo	t Lane	e / Lift	t # of #		Station 1	To Stat	on	Loads	Linear Ft.	Width	SY / SM	Tons	Sprea	ıd ▼
10	11		12			•	13		14	15	16	17	18	19	
										<b></b>					
										Verification	on of Es	stablished T	emperati	ure	<u>35</u>
	R	ecord of E	Bitum	inous Ma	terials	Verificat	ion			· · · · · · · · · · · · · · · · · · ·	/erificat	ion Results	Y/N		
										Date	Su	b. Load N	o. Te	mp.	¥
Date		10								10	11	I 36	3	37	20
Sublot		11													
Pay Item No.		21													
Grade Of Asph	alt	22													
FDOT Calibrati Tank No.	on	23													
Beginning Inch /	MM	24													
Gallons / Liter	s	25													
Ending Inch / M	M	26													
Gallons / Liter	s	27													
Time of Day after Ur	loading	28	AM PM		AM PM		AM PM		AM PM						
Temperature °C	/ °F	29													
Net (HOT) Gallons / Liter	s	30													
Correction Fact	tor	31													
Gallons / Liter	s	32													
SY / SM Cover	ed	32													
Spread Rate		24													
Gal/SY L/SM	sults	34 20													
		20								1					

Remarks 39

38

Qualified Technician ID# (TIN)

#### INSTRUCTIONS FOR COMPLETION OF THE ASPHALT ROADWAY VERIFICATION REPORT

Erasures are not allowed. Mistakes shall have a single line through the original data with the correct entry written close to it . All corrections shall be initialed and dated. Use updated forms when they become available.

# **HEADER INFORMATION SECTION**

- 1 Page Number Indicate the page number of this report.
- 2 Fin. Project ID Enter the Financial Project ID on which the sampled mix was placed.
- 3 <u>Material No.</u> A four-character code obtained from the JOB GUIDE SCHEDULE that identifies each material / test.
- 4 <u>Type of Mix</u> Indicate Asphalt mix type, e.g., FC-6, SP-12.5, B-12.5.
- 5 Mix Design No. Example: SP 97-0008, SP 02-1750A.
- 6 Intended use Indicate if mix is for Base, Structure, Friction Course etc,.
- 7 <u>Plant No.</u> Enter the Plant No. from which the mix is being produced.
- 8 Lot # Enter the Lot represented by this report.
- 9 Intended Lot Size Enter the intended lot size (2000 or 4000).

# VERIFICATION OF SPREAD RATE

- **10 <u>Date</u> Enter date of Verification.**
- 11 <u>Sublot #</u> Enter the Sublot of Verification.
- 12 Lane / Lift # of # The lane where the mix (milling) was placed. Right or left should be determined by standing on the centerline of the median, facing the direction of increasing stations, and number the lanes L1, L2, L3, etc, or R1, R2, R3 etc. This indicates that lane L1 is the first lane to the left of the centerline. Center lanes should be identified with the letter C. Shoulders can be identified IL (inside left), OL (outside left), IR (inside right) and OR (outside right). RTL (right turn lane), LTL (left turn lane). Record the lift # of # here. ("L1 / 1 of 2" would indicate Lane 1 lift 1 of 2)
- **13** <u>Station to Station</u> The beginning and ending stations of the reports construction. With multiple lanes being placed, this may vary and more than one line may be used.
- 14 Loads The load number(s) from the delivery tickets of the mix placed in this area.
- 15 Linear Feet / Meters The number of linear feet being verified.
- 16 Lane Width The width of the lane being placed, in feet. If the width is not constant a drawing or diagram must be included on the back of the report or attached so that the area can be verified. Determine average width from drawing, use "sy\*9/length". Example 26.50 sy X 9 / 45 = 5.3. (26.50sy calculated from drawing, 45' length)
- 17 SY / SM The number of square yards or square meters in the area being verified. Record to the hundredth.
- 18 Tons / MT The number of tons in the area being verified. Record to nearest hundredth
- **19** <u>Spread</u> The average spread of the area being verified must be calculated by using an average of 5 truckloads of mix. Record to the tenth, average spread for mix being placed and check with the contractor's QC results. Units: lb/yd2, kg/m2.
- 20 <u>Verification Results</u> If measurement "Meets" tolerance, record "Y" for "Yes". If measurement is outside allowable tolerance record "N" for "No". See specification 330 and 300.

# RECORD OF BITUMINOUS MATERIALS BOX

- 21 <u>Pay Item No.</u> Record the pay item number for this shot of liquid asphalt.
- 22 <u>Grade of Asphalt</u> Type liquid being used (i.e., RS, AEP, AC, etc.)
- 23 FDOT Calibration Tank Number Obtain from approved F.D.O.T calibration chart / obtain from frame or tank of distributer.
- 24 <u>Beginning Measurement</u> Distributor tank Measurement to the nearest 1/16 inch or nearest millimeter at beginning of production or every time tank is refilled.
- 25 <u>Gallons / Liters</u> Record the amount of liquid in the tank at the beginning of production by using the certified calibration chart

- 26 <u>End Measurement</u> Distributor tank measurement at end of production to the nearest 1/16 inch or nearest millimeter.
- 27 Gallons / Liters Record the amount of liquid in the tank at the end of production by using the certified calibration chart.
- 28 <u>Time of Day After Unloading</u> Record the time when ending readings were taken. Circle AM or PM.
- **29** <u>**Temperature**</u> Record the temperature of the liquid asphalt in the distributor.
- 30 <u>NET Hot Gallons / Liters</u> Record the measured amount of liquid asphalt used. Net Hot Gallons (or Liters) equals Item 25 minus Item 27.
- 31 <u>Correction Factor</u> Obtain this from the appropriate chart for this liquid asphalt. (See Construction Training Qualification Program (C.T.Q.P.) Asphalt Paving Level 2 manual).
- 32 Gallons / Liters @ 60° F / 15° C Calculate and record, Item 30 x Item 31. Record the hundredth.
- **33** <u>SY / SM Covered</u> Compute and enter the area covered by the liquid asphalt.
- **34 Spread Rate** Item 32 / Item 33.

# **TEMPERATURES**

- **35 <u>Established</u>** Mix temperature established on the approved Mix Design.
- 36 Load No Record Load No. from which the temperature is taken according to procedures set forth in CPAM section 11.3
- 37 <u>Temperature</u> Record temperature from various trucks throughtout the LOT according to procedures set forth in CPAM section 5.10 and Section 11.3.
- 38 <u>Qualified Technician ID#</u> Record the Qualified Asphalt Roadway Inspector TIN (First nine characters of Florida ID# / Drivers License Number).
- 39 <u>Remarks</u> Examples of remarks "Time Began", "Time Completed", "Any deficiencies being found during verification operation", "Contractor's corrective action". (Note time and causes of interruptions),

More specific descriptions of where the material was placed can also be shown here - Example: L2 126 + 43 to 128 + 57, R4 1288 + 32 to 1333 + 00, C 132 + 25 to 139 + 45, etc.

**NOTE**: <u>It is very important to have good communication between the Asphalt Plant Inspector and the</u> <u>Asphalt Road Inspector.</u> <u>Reports should be delivered to the verification technician at the plant no later</u> <u>than one day after completion of the Lot.</u>

# Asphalt Plant - Random Number Worksheet for Plant Samples

Specification Version(s) 7/05	Projec	ct Information	
Contractor:			Fin. Project ID:
Mix Type:	Design No.:	Plant No.:	Generated By:
LOT #:	Lot Size: 2000	Tons/sublot: 500	Date Generated:
Width:	Proj. Description:		

# Plant Sample Random Numbers

		OC Samples
Sublot	(tons)	Truck No., Load No., Ticket No.
1	210	
2	516	
3	1332	
4	1757	
		Verification Sublot
4		

Asphalt Plant - Random Number Worksheet for Roadway Density Cores

Specification Version 07/01/02	Projec	t Information	
Contractor:	_		Fin. Project ID:
Mix Type:	Design No.:	Plant No.:	Reported By:
LOT #:	Lot Size: 2000	Tons/sublot: 500	Date Reported:
Width	Proj. Description:		

		Roadway	Density Core Random Numbers
CORE ID#	(tons)	Offset (ft)	Station Number / Lift # of #
- 1 - 1	23	#######	
- 1 - 2	145	#######	
- 1 - 3	296	#######	
- 1 - 4	378	#######	
- 1 - 5	461	#######	
- 2 - 1	533	#######	
- 2 - 2	641	#######	
- 2 - 3	755	#######	
- 2 - 4	808	#######	
- 2 - 5	919	#######	
- 3 - 1	1048	#######	
- 3 - 2	1185	#######	
- 3 - 3	1291	#######	
- 3 - 4	1368	#######	
- 3 - 5	1464	#######	
- 4 - 1	1548	#######	
- 4 - 2	1672	#######	
- 4 - 3	1740	#######	
- 4 - 4	1886	#######	
- 4 - 5	1969	#######	

# Asphalt Plant - Lot Verification and Pay Factor Worksheet for Superpave Mixtures

Specification Version(s) 7/05		Project	Informat	ion		
Contractor:					Fin. Project ID:	
Mix Type: Fine	Design No.:		Plant No.:		Reported By:	
LOT #:	Intended Tons: 200	00	Actual Tons:	2000	Date Reported:	
Verification sublot:	Start Date:	End Date	:	Tons in t	his lot requiring no densi	ty: <b>0.0%</b>
Proj. Description:						
		Lot V	erificatio	ז		
Property	P <sub>-8</sub>	P <sub>-200</sub>	F	<b>)</b> b	Rice G <sub>mm</sub>	Lab G <sub>mb</sub>
QC						
Verification						
Tolerance						
Property	Core 1 G <sub>mb</sub>	Core 2 G <sub>mb</sub>	Core	3 G <sub>mb</sub>	Core 4 G <sub>mb</sub>	Core 5 G <sub>mb</sub>
QC						
Verification						
Tolerance						

	I	Lot Pay Factor	r Calculations		
Property	P <sub>-8</sub>	P <sub>-200</sub>	P <sub>b</sub>	Va	Density
Sublot 1					
Sublot 2					
Sublot 3					
Sublot 4					
Sublot 5					
Sublot 6					
Target					
n=					
Mean					
SD					
Qu					
Pu					
QI					
PI					
PWL					
PF					
Note: Sublot values which Range as spe	appear in RED are outside cified in Table 334-4, refer	e of the Master Production to 334-5.4.4.	Composite	Pay Factor	

# Asphalt Plant - Lot Verification and Pay Factor Worksheet for Open Graded Mixtures

Specification Version(s) 7/05		Project Info	rmation	
Contractor:				Fin. Project ID:
Mix Type:	Design No.:	Plant No.:	Reported By:	Date Reported:
LOT #:	Intended Tons: 2000	Actual Tons: 200	Start Date:	End Date:
Verification sublot:	Proj. Description:			

		Lot Verificatio	'n	
Property	P <sub>3/8</sub>	P <sub>#4</sub>	P <sub>#8</sub>	Pb
QC				
Verification				
Difference				
Average				
Max Diff				
Tolerance				

	Lo	t Pay Factor Calc	ulations	
Property	P <sub>3/8</sub>	P <sub>#4</sub>	P <sub>#8</sub>	Pb
Sublot 1				
Sublot 2				
Sublot 3				
Sublot 4				
Sublot 5				
Sublot 6				
Target				
n=				
Mean				
SD				
Qu				
Pu				
Qı				
<u>Pi</u>				
PWL				
PF				
Note: Sublot values v Range a	which appear in <b>RED</b> are outside c is specified in Table 337-2, refer to	f the Master Production 0 337-6.3.1.	mposite Pay Factor	

# Asphalt Plant - Lot Verification and Pay Factor Worksheet for Asphalt Treated Permeable Base

Specification Version(s) 7/05		Project Inform	nation	
Contractor:				Fin. Project ID:
Mix Type:	Design No.:	Plant No.:	Reported By:	Date Reported:
LOT #:	Intended Tons: 2000	Actual Tons: 2000	Start Date:	End Date:
Verification sublot:	Proj. Description:			

		Lot Verification	on
Property	○ P <sub>1/2</sub> (#57 stone)	P <sub>3/8</sub> (#67 stone)	P <sub>b</sub>
QC			
Verification			
Difference			
Average			
Max Diff			
Tolerance			

	Lot Pay Factor	Calculations
Property	P3/8 (#67 stone)	P <sub>b</sub>
Sublot 1		
Sublot 2		
Sublot 3		
Sublot 4		
Sublot 5		
Sublot 6		
Target		
n=		
Mean		
SD		
Qu		
Pu		
<u>     Q</u> ı		
PVL		
Note: Sublot values v Range a	which appear in <b>RED</b> are outside of the Master Production s specified in Table 337-2, refer to 337-6.3.1.	Composite Pay Factor

# Asphalt Plant -Verification / Resolution Worksheet for AC Content and Gradation

Specification Version( 7/05	Specification Version(s) 7/05 Project Information					
Contractor:				Fi	n. Project ID:	
Mix Type:	Design N	0.:	Plant No.:		Reported By:	
LOT #:	Intended Tor	ns: <b>2000</b>	Actual Tons:	<b>2000</b> D	ate Reported:	
Verification sublot:	Start Date:	Er	d Date:	Purpose:	Verification	Resolution
Proj. Description:				Use for pay:	Quality Control	Resolution
		Grad	ation Tolerance Cl	neck		
Sieve	Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC						
Verification						
Tolerance						
		Grad	ation Tolerance Cl	neck		
Sieve	Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC						
Verification						
Tolerance						
		1	P <sub>b</sub> Tolerance Chec	<		
	Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC						
Verification						
Tolerance						
		G	mm Tolerance Che	ж		
	Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC						
Verification						
Tolerance						
		Lab	G <sub>mb</sub> Tolerance Ch	ieck		
	Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC						
Verification						
Tolerance						

# Asphalt Plant -Verification / Resolution Worksheet for AC Content and Gradation

Specificatio	n Version(s)	-	Pr	oiec	t Informa	tion		
Contract	tor:						Fin. Project ID:	
Mix Ty	pe:	Design	No.:		Plant No.:		Reported By:	
LOT	OT #: Intended Tons: 2000			Actual Tons:	2000	Date Reported:		
Verificati	on sublot:	Start Date	:	End Da	ate:	Purpose:	Verification	Resolution
Proj. D	escription:					Use for pay:	Quality Control	Resolution
			Grad	dation	Tolerance Che	ck		
Sieve		Sublot 1	Sublot 2		Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC								
Verificat	ion							
Toleran	се							
			Grad	dation	Tolerance Che	ck		
Sieve		Sublot 1	Sublot 2		Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC								
Verificat	ion							
Toleran	се							
			Grad	dation	Tolerance Che	ck		
Sieve		Sublot 1	Sublot 2		Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC								
Verificat	ion							
Toleran	се							
				P <sub>b</sub> Tol	erance Check			
		Sublot 1	Sublot 2		Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC								
Verificat	ion							
Toleran	се							

Specification Version(s) 7/05	Project Information					
Contractor:					Fin. Project ID:	
Mix Type:	Design No.:		Plant No.:		Reported By:	
LOT #:	Intended Tons: 200	00	Actual Tons:	2000	Date Reported:	
Verification sublot:	Start Date:	End Da	te:	Purpos	se: Verification	Resolution
Proj. Description:		-		Use for pa	ay: Quality Control	Resolution
			Sublot 1			
	Core 1	Core 2	C	ore 3	Core 4	Core 5
QC						
VT / RT						
Tolerance						
			Sublot 2			
	Core 1	Core 2	С	ore 3	Core 4	Core 5
QC						
VT / RT						
Tolerance						
			Sublot 3			
	Core 1	Core 2	C	ore 3	Core 4	Core 5
QC						
VT / RT						
Tolerance						
			Sublot 4			
	Core 1	Core 2	С	ore 3	Core 4	Core 5
QC						
VT / RT						
Tolerance						
			Sublot 5			
	Core 1	Core 2	С	ore 3	Core 4	Core 5
QC						
VT / RT						
Tolerance						
			Sublot 6			
	Core 1	Core 2	C	ore 3	Core 4	Core 5
QC						
VT / RT						
Tolerance						
	<u>1</u>		•			

Comments:

FDOT Forms and Reports

State Of Florida	Department Of	Transportation
------------------	---------------	----------------

675-030-23 MATERIALS 09/08

		Asphalt Resc Date	lution Report		
Fin. Project ID.:	<u></u>	Pay Item No.:	<u></u>	Material ID.: 123L	<u> </u>
Sample Level: V		Resolution Sample: Y			
Destination Lab ID:		Manfr. or Prod:		Plant No.:	
Design Mix No.:				Sampled By:	
		Intended Use:		Performed By:	
		Quantity Rep.:		Unit of Measure: <b>TN</b>	
		Plant Vo	umetrics		
	LIMSID	<u> </u>			<u> </u>
	Date Sampled				
Gradation and	Date Tested				
AC Content	Sample No.:				
	Mix Design Targets	Lot/Sub	Lot/Sub	Lot/Sub	Lot/Sub
1" (25.0mm)					
3/4" (19.0mm)					
1/2" (12.5mm)					
3/8" (9.5mm)					
#4 (4.75mm)					
#8 (2.36mm)					
#16 (1.18mm)					
#30 (600 μm)					
#50 (300 μm)					
#100 (150 μm)					
#200 (75μm)					
AC %					
Gmm					
Avg. Bulk (Gmb)					
Roadway Core	e 1 Gmb				
Roadway Core	e 2 Gmb				
Roadway Core	e 3 Gmb				
Roadway Core	e 4 Gmb				
Roadway Core	e 5 Gmb				

# Qualified Technician Signature

Remarks	

# Asphalt Mix Design Summary Report

	Project and Mix Design Inormation														
Project No.:	123456-1-52-	01	SR No. :	60			Date:	1/1/2001							
Contractor	Caledonia Pa	vina		Gyra	tions	Te	sted by:	00							
Mix Design No :	01 2345 A	(mm):	12.5		6	Lot	/ Sublot	1 1			 			<u> </u>	
	01-2343 A		12.5		50	LUI					 			<u> </u>	
Traffic Level:	A	Gmm:	2.345	@ N <sub>d</sub> :	50	San	ipie No.	6FUUIQ						<b></b>	l
VMA:	14.0% MIN	VFA:	70-80%	@ N <sub>m</sub> :	75	Rand	om No.	145						L	
Design Temp:	Production:	335	Co	mpaction:	310	L	_ot CPF								
Property	IME			MIN	MAX	PNC	CNIT								
	100	AVG		100.00			1.00	100.00	1				1		
25.0mm (1)	100	100.00	0.00	100.00	100.00	0.00	1.00	100.00						<b> </b>	<b> </b>
19.0mm (3/4 )	100	100.00	0.00	100.00	100.00	0.00	1.00	100.00						<b> </b>	l
12.5mm (1/2")	90	90.00	0.00	90.00	90.00	0.00	1.00	90.00						L	
9.5mm (3/8")	80	80.00	0.00	80.00	80.00	0.00	1.00	80.00							
4.75mm (#4)	70	70.00	0.00	70.00	70.00	0.00	1.00	70.00							
2.36mm (#8)	50	50.00	0.00	50.00	50.00	0.00	1.00	50.00							
1,18mm (#16)	40	40.00	0.00	40.00	40.00	0.00	1.00	40.00							
600um (#30)	30	30.00	0.00	30.00	30.00	0.00	1.00	30.00							
300um (#50)	20	20.00	0.00	20.00	20.00	0.00	1 00	20.00	1				1		
150um (#100)	10	10.00	0.00	10.00	10.00	0.00	1.00	10.00							
75um (#200)	5.0	5.00	0.00	5.00	5.00	0.00	1.00	5.00						<u> </u>	<u> </u>
75um (#200)	5.0	5.00	0.00	5.00	5.00	0.00	1.00	5.00				 		<u> </u>	<u> </u>
EXt. AC %:	6.0	6.00	0.00	6.00	6.00	0.00	1.00	6.00						L	L
Rice MSG (Gmm) <sup>.</sup>	2 345	2 345	0.00	2 345	2 345	0.00	1 00	2.345							
Avg Bulk (Gmb):	2.010	2 234	0.00	2 234	2 234	0.00	1.00	2 234							
Agg Sp Gr (Gsh):		2 5/3	0.00	2 543	2 5 4 3	0.00	1.00	2 5/3							
Hat @N int :		121.0	0.00	121.0	121.0	0.00	1.00	121.0						<u> </u>	
		115.0	0.00	115.0	131.0	0.00	1.00	131.0			 	 	 	<u> </u>	
ngi.@N des		115.0	0.00	115.0	115.0	0.00	1.00	115.0						L	<u> </u>
%Gmm @ Ni	≤ 91.5	83.6	0.00	83.6	83.6	0.00	1.00	83.63							
% Gmm @ Nd	96.0	95.3	0.00	95.3	95.3	0.00	1.00	95.27							
									1				1	<u> </u>	·
% Air Voids @ Nd		4.73	0.00	4.73	4.73	0.00	1.00	4.73						L	L
% VMA @ Nd		17.42	0.00	17.42	17.42	0.00	1.00	17.42							
% VFA @ Nd		72.85	0.00	72.85	72.85	0.00	1.00	72.85							
Dust/Asphalt		0.85	0.00	0.85	0.85	0.00	1.00	0.85							
Cmb @ Md		0.004	0.00	0.00	0.004	0.00	1.00	2.024							
		2.234	0.00	2.23	2.234	0.00	1.00	2.234						<b> </b>	<b> </b>
Density IDS/Cf		139.4	0.00	139.40	139.4	0.000	1.00	139.40			 	 	 	<b> </b>	<b> </b>
Gse		2.6	0.00	2.55	2.6	0.00	1.00	2.55						<b></b>	<b> </b>
Pba		0.11	0.00	0.11	0.11	0.00	1.00	0.11							
Pbe		5.90	0.00	5.90	5.90	0.00	1.00	5.90							
Boodwoy Core	1 Cmb							2 200		 	 	 	 		<b>_</b>
Roadway Core								2.209			 	 	 	<b> </b>	<b> </b>
Roadway Core								2.221			 	 	 	<b> </b>	<b> </b>
Roadway Core	3 Gmb							2.199			 	 	 	<b> </b>	<b> </b>
Roadway Core	e 4 Gmb							2.225						L	L
Roadway Core	5 Gmb							2.185							
Average Core	Gmb	2 21	0.00	2 21	2 21	0.00	1.00	2 208				 			
Sublet Ca		2.21	0.00	2.21	2.21	0.00	1.00	2.200	<u> </u>		 		<u> </u>	<b> </b>	<b> </b>
		2.35	0.00	2.30	2.30	0.00	1.00	2.345					 	<b> </b>	<b> </b>
% of Sublot	Gmm	94.16	0.00	94.16	94.16	0.00	1.00	94.16							

# Asphalt Mix Design Summary Report

Project No.:	123456-1-52-	01	SR No. :	60			Date:									
Contractor:	Caledonia Pa	vina		Gvra	tions	Т	ested by:									
Mix Design No :	01-2345 A	(mm) <sup>.</sup>	12.5	0 N :	6	10	t / Sublot									
Traffic Level:	Α	Gmm'	2 345		50	Sa	mple No									
	14.0% MIN		70-80%		75	Ran	dom No									
Design Temp:	Production:	335	Cor	mpaction:	310		Lot CPF									
Descente	11.15	AV(0	OTD			DNIO	ONT	·			ļ	 ļ	ļ	ļ	<b></b>	
Property		AVG	SID			RNG		1	1	1				1		1
25.0mm (1°)	100	100.00	0.00	100.00	100.00	0.00	1.00									
19.0mm (3/4 )	100	100.00	0.00	100.00	100.00	0.00	1.00									
12.5mm (1/2°)	90	90.00	0.00	90.00	90.00	0.00	1.00									
9.5mm (3/8")	80	80.00	0.00	80.00	80.00	0.00	1.00									
4.75mm (#4)	70	70.00	0.00	70.00	70.00	0.00	1.00									
2.36mm (#8)	50	50.00	0.00	50.00	50.00	0.00	1.00									 
1.18mm (#16)	40	40.00	0.00	40.00	40.00	0.00	1.00									 
600um (#30)	30	30.00	0.00	30.00	30.00	0.00	1.00									 
300um (#50)	20	20.00	0.00	20.00	20.00	0.00	1.00	 								 
150um (#100)	10	10.00	0.00	10.00	10.00	0.00	1.00									
75um (#200)	5.0	5.00	0.00	5.00	5.00	0.00	1.00									
Ext. AC %:	6.0	6.00	0.00	6.00	6.00	0.00	1.00									
Rice MSG (Gmm):	2 345	2 345	0.00	2 345	2 345	0.00	1 00									
Avg Bulk (Gmb):	21010	2 234	0.00	2 234	2 234	0.00	1 00									
Ang Sp Gr (Gsh)		2 543	0.00	2 543	2 543	0.00	1.00									
Hat @N int :		131.0	0.00	131.0	131.0	0.00	1.00									
Hat.@N des.:		115.0	0.00	115.0	115.0	0.00	1.00									
	104 5		0.00		00.0	0.00	1.00	T	r	1	I	1	1	r		 r
%Gmm @ Ni	≤ 91.5	83.6	0.00	83.6	83.6	0.00	1.00	 								 
% Gmm @ Nd	96.0	95.3	0.00	95.3	95.3	0.00	1.00									
% Air Voids @ Nd		4.73	0.00	4.73	4.73	0.00	1.00									
% VMA @ Nd		17.42	0.00	17.42	17.42	0.00	1.00									
% VFA @ Nd		72.85	0.00	72.85	72.85	0.00	1.00									
Dust/Asphalt		0.85	0.00	0.85	0.85	0.00	1.00									
Cmb @ Nd		0.004	0.00	2.22	0.004	0.00	1.00	1	1							1
		2.234	0.00	2.23	2.234	0.00	1.00									
		139.4	0.00	139.40	139.4	0.000	1.00					 				 
Gse		2.0	0.00	2.55	2.0	0.00	1.00									
Pba		0.11	0.00	0.11	0.11	0.00	1.00									
Pbe		5.90	0.00	5.90	5.90	0.00	1.00									
Roadway Core	e 1 Gmb															
Roadway Core	e 2 Gmb															
Roadway Core	e 3 Gmb															
Roadway Core	e 4 Gmb															
Roadway Core	e 5 Gmb															
	Cmb	2.21	0.00	2.21	2 21	0.00	1.00									
Average Con		2.21	0.00	2.21	2.21	0.00	1.00	+								
		2.35	0.00	2.30	2.35	0.00	1.00					 				
% of Sublot	Gmm	94.16	0.00	94.16	94.16	0.00	1.00									

#### State Of Florida Department Of Transportation Asphalt Mix Design Summary Report

Production Charts



675-030-24 MATERIALS 01/04

# Asphalt Mix Design Summary Report

675-030-24 MATERIALS 01/04

		Project	Summar	у															
Project No.:	1234567520	1					Date:	1/12/2001	1/12/2001	1/12/2001	1/15/2001	1/16/2001	1/17/2001	1/18/2001	1/18/2001	1/18/2001	1/19/2001	1/19/2001	1/22/2001
SR No. :	60					Т	ested by:	QC	IA	QC	QC	QC	QC	QC	IA	QC	QC	QC	QC
Contractor:	Caledonia Pa	aving				Sa	ample ID:	1,1	1,1	1,2	1,3	1,4	2,1	Info w/IA	Info	Info	Info	2,2	2,3
Mix Design No.:	01-2345 A						Load #:	5	5	18	4	16	34	4	4	18	4	30	4
Traffic Level:	E					٦	ons/day:			672.21	807.23	568.3	775.04			802.98		902.59	
Mix (mm):	FC-5																	· · · · · · · · · · · · · · · · · · ·	
Property	JMF	AVG	STD	MIN	MAX	RNG	CNT												
25.0mm (1")	100	100.00	0.00	100.00	100.00	0.00	11.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		100.00	100.00	100.00
19.0mm (3/4")	100	90.29	1.36	87.75	92.06	4.31	11.00	89.28	91.05	92.06	91.44	90.90	89.68	90.74	88.03		90.68	87.75	91.53
12.5mm (1/2")	96	69.82	1.57	67.50	72.33	4.83	11.00	71.02	71.58	71.40	68.54	68.87	69.12	67.50	70.77		68.91	67.94	72.33
9.5mm (3/8")	88	53.38	1.53	49.92	55.81	5.89	11.00	54.13	54.27	54.96	52.28	52.90	52.88	49.92	54.42		52.30	53.30	55.81
4.75mm (#4)	67	42.69	1.26	39.92	44.61	4.69	11.00	43.40	43.23	44.43	41.76	42.27	42.37	39.92	43.05		41.75	42.76	44.61
2.36mm (#10)	53	35.25	1.00	33.15	36.66	3.51	11.00	35.43	36.20	36.66	34.50	34.72	34.78	33.15	35.97		34.63	35.11	36.56
1.18mm (#40)	41	26.78	0.82	25.42	28.08	2.66	11.00	26.34	27.85	27.62	26.30	26.13	26.14	25.42	28.08		26.57	26.56	27.59
600um (#80)	33	11.86	0.59	11.02	13.31	2.29	11.00	11.02	12.42	11.74	11.86	11.20	11.61	11.68	13.31		12.03	11.58	12.04
75um (#200)	5.0	5.38	0.44	4.66	6.56	1.90	11.00	4.66	5.42	5.07	5.17	5.28	5.38	5.38	6.56		5.25	5.37	5.65
Ext. AC %:	6.5	AVG         STD         MIN         M           100.00         0.00         100.00         100.           90.29         1.36         87.75         92           69.82         1.57         67.50         72           53.38         1.53         49.92         55.           42.69         1.26         39.92         44.           35.25         1.00         33.15         36.           26.78         0.82         25.42         28.           11.86         0.59         11.02         13.           5.38         0.44         4.66         6.           6.45         0.21         6.18         7.		7.05	0.87	12.00	6.39	6.50	6.48	6.33	6.43	6.38	6.18	6.43	6.29	6.58	6.32	7.05	

# Asphalt Mix Design Summary Report

675-030-24 MATERIALS 01/04

		Project	Summar	y									
Project No.:	1234567520						Date:						
SR No. :	60					T	ested by:						
Contractor:	Caledonia Pa	wing				Sa	ample ID:						
Mix Design No.:	01-2345 A						Load #:						
Traffic Level:	E					Т	ons/day:						
Mix (mm):	FC-5												
Property	JMF	AVG	STD	MIN	MAX	RNG	CNT						
25.0mm (1")	100	100.00	0.00	100.00	100.00	0.00	11.00						
19.0mm (3/4")	100	90.29	1.36	87.75	92.06	4.31	11.00						
12.5mm (1/2")	96	69.82	1.57	67.50	72.33	4.83	11.00						
9.5mm (3/8")	88	53.38	1.53	49.92	55.81	5.89	11.00						
4.75mm (#4)	67	42.69	1.26	39.92	44.61	4.69	11.00						
2.36mm (#10)	53	35.25	1.00	33.15	36.66	3.51	11.00						
1.18mm (#40)	41	26.78	0.82	25.42	28.08	2.66	11.00						
600um (#80)	33	11.86	0.59	11.02	13.31	2.29	11.00						
75um (#200)	5.0	5.38	0.44	4.66	6.56	1.90	11.00						
Ext. AC %:	6.5	6.45	0.21	6.18	7.05	0.87	12.00						

#### Florida Department of Transportation - Asphalt Plant Worksheet

F														AP	W: 03/13/2009
			Project	ID.:					Pay Item	No.:			Material ID.:		
		Sa	ample Le	evel: Q	Alt	t Der	nsity Sublot: N/	A F	Resolution San	nple: N		S	bec. Authority:		
	S		Spec. Y	ear:					Destination La	ibID:		1	Manfr or Prod:		
	atic		Plant I	No.:					Design Mix.	No.:				LOT	
	orm				Г		Data Camala		SUB	LUI	SUB	Material ID.:      Spec. Authority:      Manfr or Prod:      SUB    LOT    SUB      LOT    SUB    LOT    SUB      SUB    LOT    SUB      LOT    SUB    LOT    SUB      LOT    SUB    LOT    SUB      Colspan="2"      Colspan="2"	SUB		
es	Infe				Ļ		Date Sampled								
80	gin		JE C	OF FLOA		Sam	pled By (TIN)	:							
I est	٢		STAL	TID A			Submitted By	:							
МS	ple	ь					of	:							
	San	EPP	1				Phone	:							
Н	le	in .					Intended Use	:							
¥∣	Sing		ENTO	5 TO ANSPO			Sample No.	:							
	0)		The Property lies and	FTRA			Station From	:	+		+		+		+
							Station To		+		+	-	+	-	+
Ļ					L	ane,	Load #, Ran. Ton	s							
					Pert	torn	ned By (TIN)								
						Pe		•							
				Ban Baska	st ⊥ C	Das	nole wt. g (A	)							
				Ban Sa	mplo	Jair	$\frac{ \mathbf{p}  \in \mathbf{W}_{L}, \mathbf{g} (\mathbf{B})}{\mathbf{q}}$	)							
	ent			End Bask	inhie inhie	s wi	y, y, (D-A)	)							
ЧЧ	ont			Final Sa				/							
563	E C				from	Pri	nt Out % (E	/ \							
-GM-	oha	(	Calibra	tion Factor %	(F)			)							
-	Asl	Des A			Perci	ent	AC. % (E+E								
		DC3. /	<b>O</b> , 70	Wt of	Fytra	acte		)							
		No	ote: Dif	f. D & G shall	not >	> 0.2	2% of D.	/							
				Wt. of W	ashe	ed S	Sample, g (H	)							
		W	t of - 75	ium Mat'l lost du	ie to \	Was	shina. a. (G-H	)							
F					Perf	forn	ned By (TIN)	:							
		Agg	d in			Pe	erformed On	:							
		Ext'd	t ret'	Sieve			Target	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass
		d / E	≥ +	1" (25.0mm	n), g										
		t ret	ash 100	3/4" (19.0mm	n), g										
		∧ -	ti * ≪	1/2" (12.5mm	n), g										
Μď	S	100	due 1 Jg W	3/8" (9.5mm	n), g :	ative									
3304	latic	00 = /t.)*1	oss ( d Aç	No.4 (4.75mm	n), g	mula									
1-1(	<u>èrac</u>	1#1 ∧	Of I Ext	No.8 (2.36mm	n), g	e cn									
ΡZ	0	" thr	(Wt. an) /	No.16 (1.18mm	n), g	ts ar									
		es 1	= 0 0	No.30 (600µn	n), g	eigh									
		Siev	#20	No.50 (300μn	n), g	≥									
		ass	Pass	No.100 (150μn	n), g										
		Ч %	%	No.200 (75μm	n), g	-									
					Wto	of IV	latl, in Pan, o	r							
ŀ					Perf	forn	ned By (TIN)	:							I
						P	erformed On	:							
		(	Must b	e a numerica	l nur	nbe	er) Flask No.	:							
		Weight	of Flas	sk + Sample											
≥ n	Ì	Weight	of Flas	sk											
19AF	Ę	Weight	of San	nple			(A	)							
- 12(	പ്	Weight	of Flas	sk + Water			(D	)							
ΓĂ	[	Weight	of Flas	sk + Water + S	Samp	ole	(E	)							
		Weight	of San	mple Surface I	Dry		(B	)							
		Gmm =	(A/(B-	+D-E))											
		Corr. F	actor	$JMF~G_{mm}$			Difference	e							
							Average G <sub>mr</sub>								

Ē	P				Pe	rforme	d By (T	IN): 🖊			/							1		
						Perforr	ned Or	<u>:</u>						/				<u> </u>		
						Hgt.	. @ N <sub>ini</sub>	/		/			/							
					Н	lgt. @ N	V <sub>des</sub>					/				/	1			
Z	ą		A٧	erage Hei	ahts Na	. Ndaa	-		/		/	-/-		1		/				
166F	ບັ			у		abt des	/		/	-/	/	_/_		/	Image: state of the state					
1-T	Lab			L		yn		/		-		/	/							
Ρ				Wa	ter Wei	ght				$\square$	,	/								
				SSD	Weight	/		/			/									
		JMF	${\rm G}_{\rm mb}$	G	mb										/		1			
				Avg G <sub>mb</sub>	7		÷		7				7				1			
F		Perfo	rmed	By (TIN):	Í –				Í				Í							
			Perfo	ormed On:																
		F	ine G	raded	Dry	Water	SSD	Gmb	Dry	Wat	er SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
0	q	$\checkmark$	Co	re # 1																
ROAL	ດ ຫຼື	qe	Co	re # 2																
166F	way	м	Co	re # 3																
11-T	bad	tatic																		
Ρ	Ř	Ω.	Co	re # 4																
			Co	re # 5																
		Tar	get	$Avg\;G_{mb}$																
		93	.0	% G <sub>mm</sub>																
Γ		Pe	erform	ied By (TII	J).				$\overline{\ }$											
				Perfo	ormed C	Dn.				$\searrow$							$\rightarrow$			
		Agg	I Sp G	rav (G <sub>sb</sub> )																
		Gyı	rations	s @ N <sub>des</sub>																
		%	Gmm	I @ N <sub>int</sub>																
	ş	%	Gmm	@ N <sub>des</sub>																
etrice	etric	% A	ir Void	ds @ N <sub>des</sub>																
mlo	lum	%	VMA	@ N <sub>des</sub>																
×	20	%	VFA	@ N <sub>des</sub>																
		D	ust / A	Asphalt																
		(	G <sub>mb</sub> @	N <sub>des</sub>																
			G	se																
			P	08						_										
			P	20																
F				AI	ternate P	ay-Item:														
Γ		Comr	nents	(Sublot 1):														PA	Y FACTO	RS
L				. ,																
_																				
		Comr	nents	(Sublot 2):																
г				(0.11.50)													_			
		Comr	ments	(Sublot 3):																
Г		Comr	nents	(Sublot 4).													- i			
L																				

			State of 1 Asphalt Pave Date:	Florida Department of Transportation C C Page of	675-060-10 ONSTRUCTION 03/08
District:	County/S	ection No.:		FIN I.D. No. Type of Mix:	
Type of Pavement: Contractor:		Structural	□ Friction	Type of Straightedge:        □ 15' Rolling Straightedge         □ 15' Manual S      Engineer:        □ FDOT        □ CEI:	traightedge
LANES	WIDTH	STATIC	ON TO STATION	DESCRIPTION OF DEFICIENCIES OR SURFACE PROBLEM(S)	PROPOSED DISPOSITION CODE
REMARKS:					
RR: Remov	e and Repla	ace,		LN: Leave in Place with No Payment	
LR: leave in	Place with	Reduced F	Payment	LF: Leave in Place with Full Payment Verification Technician Signature	
QC TIN Number	r:			VT TIN Number:	
FDOT Forms	and Reports		CTO	QP Asphalt Course - January 2009 Update	Page 48 of 52

			State of 1 Asphalt Pave Date:	Florida Department of Transportation C C Page of	675-060-10 ONSTRUCTION 03/08
District:	County/S	ection No.:		FIN I.D. No. Type of Mix:	
Type of Pavement: Contractor:		Structural	□ Friction	Type of Straightedge:        15' Rolling Straightedge         15' Manual S      Engineer:        FDOT      CEI:	traightedge
LANES	WIDTH	STATIC	ON TO STATION	DESCRIPTION OF DEFICIENCIES OR SURFACE PROBLEM(S)	PROPOSED DISPOSITION CODE
REMARKS:					
RR: Remov	e and Repla	ace,		LN: Leave in Place with No Payment	
LR: leave in	Place with	n Reduced I	Payment	LF: Leave in Place with Full Payment Verification Technician Signature	
QC TIN Number	r:			VT TIN Number:	
FDOT Forms	s and Reports		CTO	QP Asphalt Course - January 2009 Update	Page 49 of 52

# Instruction for Completion of Asphalt Pavement Straightedge Test Report

No erasures accepted, strikeout mistakes only

1. Date - Indicate the date this report was generated.

2. Page Number - Indicate the page number of this sheet.

**3. District** - Enter the name of the County on which the project is located.

**4. County/Section No.** - Indicate the county's name and the section number on which the project is located.

5. Fin. Project ID - Enter the Financial Project ID on which the test was performed.

6. Type of Mix - Indicate asphalt mix type, e.g., FC - 5, FC - 6, SP - 9.5, etc.

**7. Type of Pavement** - Enter X in the  $\square$  to indicate the type of pavement on which the testing is performed.

**8. Type of Straightedge** - Enter X in the  $\square$  to indicate the type of straightedge being used for the testing.

9. Contractor - Enter the name of the Contractor for this project.

**10. Engineer** - Enter X in the  $\square$  to indicate the name of Engineer.

**11. Lanes** - The lane where the test was performed. Right or left should be determined by standing on the centerline on the median, facing the direction of increasing stations, and number the lanes L1, L2, L3 etc., or R1, R2, R3 etc. This indicates that L1 is the first lane to the left of the centerline. Center lanes should be identified with the latter C. Turn lane is identified by RTL (right turn lane), LTL (left turn lane).

**12. Width** - Indicate the width of the lane being tested.

**13. Station to Station** - Enter the beginning and the ending stations of the lane being tested.

14. Description of the Deficiencies or Surface Problem(s) - Describe the smoothness

deficiencies such as + 5/16 inch or - 1/4 inch and/or pavement surface problem(s) such as rutting depth 0.3 inch, cracking 1/8 inch with 15 inches in length, raveling with 25 feet in length, segregation 10 square feet, etc.

**15. Remarks** - Comments pertinent to the straightedge testing which are not shown elsewhere on the report. Any immediate corrections are needed and instruction was issued to the Contractor, etc. If no deficiencies were found during straightedge testing, the Report shall specifically state "No Deficiencies Were Found" in the Remarks.

**16. QC Technician Signature** - To be signed by the Qualified Asphalt QC Technician who performed the testing.

**17. Verification Technician Signature** - To be signed by the Qualified Asphalt Verification

Technician who verified the report at the job site during Contractor's testing.

**18. QC TIN Number** - Enter the QC Technician TIN Number.

**19. VT TIN Number** - Enter the VT Technician TIN Number.

**20. Proposed Disposition Code** – Contractor enters the proposed correction work for the Deficiency by using the following Disposition Code:

RR: Remove and Replace.

LN: Leave in Place with No Payment.

LR: Leave in Place with Reduced Payment.

LF: Leave in Place with Full Payment

			State of I Asphalt Pave Date:	Florida Department of Transportation  ement Straightedge Test Report Page of	675-060-10 CONSTRUCTION 03/08
District:	County/S	ection No.:		FIN I.D. No. Type of Mix:	
Type of Pavement: Contractor:		Structural	□ Friction	Type of Straightedge:         15' Rolling Straightedge       15' Manual       Engineer:       Engineer:        FDOT       CEI:	Straightedge
LANES	WIDTH	STATIC	ON TO STATION	DESCRIPTION OF DEFICIENCIES OR SURFACE PROBLEM(S)	PROPOSED DISPOSITION CODE
REMARKS:					
RR: Remov	e and Repla	nce,		LN: Leave in Place with No Payment	
LR: leave in	Place with	Reduced I	Payment	LF: Leave in Place with Full Payment Verification Technician Signature	
QC TIN Number	r:			VT TIN Number:	
FDOT Forms	s and Reports		CTO	QP Asphalt Course - January 2009 Update	Page 51 of 52

#### STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION **CROSS SLOPE MEASUREMENT DATA FORM**

FORM NO. 700-010-98 CONSTRUCTION 03/02

Quality Control Verification

FIN Project No.:							S.R. No.:				No. of Lan	es:			
Type of Constru	iction						From:				Type of Mi	xture:			
County/Section	No.:						To:				English/Me	etric:			
			ROADWAY	·		SHOULDI	ER		LIET		ROADWAY	·		SHOULD	ER
STATION	NO.	LANE NO.	X-SLC	PE (%)	INSIDE /	X-SLC	DPE (%)	STATION	NO.	LANE NO.	X-SLC	)PE (%)	INSIDE /	X-SLO	PE (%)
			Design	Measured	OUTSIDE	Design	Measured				Design	Measured	OUTSIDE	Design	Measured
Measured By: _		Name	e (Print)	_/	Date										

NOTES:

1. Legend:

Lane No.: R-1; R-2, R-3 Shoulders: OR - Outside Right; IR - Inside Right OL - Outside Left; IL - Inside Left

L-1; L-2; L-3

2. When the cross slope measurement is performed on turning lane, acceleration lane, deceleration lane or ramp, change the "Readway" heading to the applicable heading manually.