

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

QMP HMA

Asphalt Paving Inspectors Daily Report

TMD-004

Rev 3/03

Project No.: _____ County: _____ Contractor: _____ Date: _____

MDOT JMF No. _____ Mix Type: _____ Temperature: AM _____

PM _____

Beginning Station No. / Lane _____

Total Tons Today: _____

Ending Station No. / Lane _____

Theor. Tons Today: _____

Total Paving Length, ft. _____

Over/Under Today: _____

INSTRUCTIONS:

Use Table 1 first production day, or bias update day, for density and bias determination.

Req. No. Lots _____

Fill in Table 2 on bias update days. Use Table 3 on normal production days.

Lot Length, ft. _____

Table 1

Lot	1	2	3	4	5	6	7
-----	---	---	---	---	---	---	---

Average

Beginning Station								
Test Location, Sta.								
Offset to rt., ft.								
Core Density, pcf								
Nuclear Density, pcf								
Gauge Bias, pcf								

Max. Den. (Note 1), pcf								
Compaction (Cores), %								
Pay Factor								

Table 2

Prev. Gauge Biases:

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	New Gauge Bias

Table 3

Lot Compaction

Lot	1	2	3	4	5	6	7
-----	---	---	---	---	---	---	---

1	2	3	4	5	6	7
---	---	---	---	---	---	---

Nuclear Density, pcf

Core Density, pcf

Location 1							
Location 2							
Location 3							
Location 4							
Location 5							
Average							

Bias							
Corr. Density, pcf							
Max. Den. (Note 1), pcf							
Compaction, %							
Pay Factor (Note 2)							

Note 1: Max. Den. = Average Gmm for the day x 62.24

Note 2: Any pay factor < 1.0 must be verified by core density.

Average Daily Compaction:

REMARKS: _____

DISTRIBUTION:

- Original to State Materials Engineer
- Copy to State Construction Engineer
- Copy to District Materials Engineer
- Copy to Project Engineer

Signed: _____

Paving Inspector

QMP HOT-MIX ASPHALT

Q.A. Mixture Report

Project Number _____

TMD-005

Day No.	Contractor Report No.'s Test No.	Q.A. No.	M.D.O.T. Dist. Report No.'s Lab No.
MDOT Mix No. _____	Type Mix _____	A.C. Source _____	Placed As _____
Contractor _____	Sub-Contr. _____	Agg. BSG _____	Job Mix AC _____
J. M. VMA _____	J. M. Voids _____	J.M. % Cr. Mat'l. _____	J.M. % L. S. Ret. _____
Producer of Mix _____		% Crush Count _____	% L. S. Ret. _____
Date Produced _____		Date Comparison Made _____	

Extraction					Max. Sp. Gr. (Gmm)	
					# 1	# 2
Sample Mass, g					Sam. Mass	
Dry Mass, g					Cali. Mass	
Extr. Mass, g					Mass in Water	
Job Mix	Sieve Size	MDOT Mass Ret.	MDOT % Passing	Diff. from Contr. QC	SSD Mass	
	37.5 mm				Dryback Factor	
	25.0 mm				Max Sp. Gr.	
	19.0 mm				MRCF	
	12.5 mm				Corr. Max. SG	
	9.5 mm				Avg. MSG.	
	4.75 mm					
	2.36 mm					
	1.18 mm					
	600 um					
	300 um					
	75 um					

AC Content / Moisture Corr.	
% AC	
Sample Mass	
Dry Mass	
% Moisture	
% Corr. AC	

Laboratory Compaction / Void Analysis					
Specimen No.	1	2	3	4	Average
Comp. Temp.					*****
Mass in Air					*****
Mass in Water					*****
Mass SSD					*****
Volume					
Bulk Gr.					
Height (N-MAX)					*****
Height (N-DES)					*****
Bulk Gr.(N-DES)					
EQ. Corr. Factor					*****
BRCF					*****
Corr. Bulk Gr.					
Total Voids %					
VMA %					

DESIGN # GYRATIONS
 N (ini) = _____
 N(des) = _____
 N(max) = _____

Core Density (Evaluation Section or Bias Update)								
Lot No.	1	2	3	4	5	6	7	Average
Station No.								*****
Location								*****
Thickness cm.								*****
Mass in Air								*****
Mass in Water								*****
Mass SSD								*****
Volume								
Bulk Sp. Gr.								
Max. Sp. Gr.								
% Density								
Absorption								

Remarks _____

DISTRIBUTION:

- Original to State Materials Engineer
- Copy to State Construction Engineer
- Copy to District Testing Engineer
- Copy to Project Engineer
- Copy to Producer Lab File

Signed _____

HMA DAILY PLANT SAMPLES RANDOM NUMBERS

TMD-020

DATE _____
PROJECT NO. _____
LOT NO. _____
TYPE OF MIX _____

REQUIRED SAMPLE FREQUENCY

TOTAL ESTIMATED PRODUCTION, tons	NUMBER OF TESTS
50-800	1
801-1700	2
1701-2700	3
2701 +	4

TONNAGE PRODUCED PREVIOUS DAY _____
ESTIMATED TONNAGE FOR DAY (A): _____
NUMBER OF SAMPLES REQUIRED (B): _____
ESTIMATED TONNAGE / SAMPLES (A/B) = C: _____

SELECT 4 RANDOM NUMBERS AND ENTER BELOW (4 random numbers should be selected regardless of the number of tests required. Use additional random numbers if production exceeds the estimated tonnage.

RANDOM NO. 1 (R1) _____ SAMPLE TONS 1 = (C x R1) _____
RANDOM NO. 2 (R2) _____ SAMPLE TONS 2 = (C+(C x R2)) _____
RANDOM NO. 3 (R3) _____ SAMPLE TONS 3 = (2 x C)+(C x R3) _____
RANDOM NO. 4 (R4) _____ SAMPLE TONS 4 = (3 x C)+(C x RS4) _____

COLD FEED RATES (%)

AGG # 1 _____
AGG # 2 _____
AGG # 3 _____
AGG # 4 _____
AGG # 5 _____
AGG # 6 _____
AGG # 7 _____

IF THE COLD FEED RATES ARE CHANGED MORE THAN 5% FROM THE JMF, RECALCULATE THE COMBINED AGGREGATE BSG AND NOTE THAT CHANGE ON YOUR ASPHALT REPORT

SIGNED _____

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
Bituminous Mix Design for _____ Course

(SIZE - TYPE)

Project No. _____

County _____

Contractor _____

Date: _____

Sub-Contr. _____

TEST DATA: _____ Original Design

_____ Revised Design

_____ Transfer:

From Proj. No. _____

MDOT Lab No. _____

Sample No.						Agg. Blend	Job Mix	Spec.
Type Material						% Passing	% Passing	Design Range
Aggregate Source								
Percent of Material Used in Blend								
Sieve Size	Gradation (Percent by Weight Passing)							
1-1/2"								
1"								
3/4"								
1/2"								
3/8"								
No. 4								
No. 8								
No. 16								
No. 30								
No. 50								
No. 100								
No. 200								
% Clay						Comb. Aggr. Blend Properties		
PI -40 Material							% Total Clay	
% Crushed, + #4							Dust/Binder Ratio	
Apparent SG, Gsa							% Crushed, + #4	
Bulk SG, Gsb							Apparent SG, Gsa	
% Abs. Moisture							Effective SG, Gse	
<p align="center">Gyratory Compaction</p> Revolutions: Nini = _____ Ndes = _____ Nmax = _____							Bulk SG, Gsb	
							% Abs. Moisture	
<p>Compaction Temp. _____ Bulk Spec. Grav. @ Ndes (Gmb) = _____</p> <small>(ATTACH VISCOSITY CHART)</small>							Thin & Elong. Pcs., %	
							Sand Ratio	
<p align="center">Analysis of Stripping</p> TSR = _____ % Visual Stripping = _____ % Antistrip Addition: _____ Rate = _____ % by wt. of AC Source: _____						Mix Properties @ Ndes		
							Mix Temp.	
<p align="center">Asphalt Cement</p> Source _____ Grade _____ Spec. Grav. _____ AC (RAP) _____ % AC (New) _____ % Total AC _____ % The percentage of Asphalt Cement of the grade specified above to be used with the above blend of mineral aggregates for the _____ Course is _____ % by weight of the total mixture.							Air Voids, Pa, %	
							VMA, %	
							Absorbed AC by wt. of Total Mix, %	
							Effective AC, %	
<p>Remarks: _____</p>							Max. SG, Gmm (Dry Back)	

SIGNATURE

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
JACKSON, MS**

DAILY REPORT FOR PRESSURE GROUTING

1. Report No. _____ Date _____ MS
2. Project No. _____ County _____ Route No. _____
3. Contractor _____ Cement Brand _____ Type _____
4. Station _____ Station _____ Weather _____

GROUP BATCH QUANTITIES

5. Batch No.	Atmosphere Temperature (°C)	% Calcium Chloride	Calcium Chloride (Lbs.)	Cement Lbs.	Fine Sand (Cu. Yds.)	No. Holes Pumped	Sand Cement Ratio	Flow (Seconds)
6. TOTAL								

7. Remarks _____

Submit Copies to: State Materials Engineer (1)
State Construction Engineer (1)
District Engineer (1)
Project File (1)

Certified Correct _____ Inspector

Submit original with final estimate

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
JACKSON, MS

DAILY REPORT OF LIME STABILIZATION
REPORT NO. _____

Lime: Brand _____
Unit Weight (lbs./cu. ft.) _____
Water: Source _____
Raw Soil: Clay; Silts; Silty Clay (Circle One)
Std. Dens. (lbs./cu. ft.) _____
Class of Treatment: A; B; C; D; (Circle One)
Depth of Treatment: Specified _____
Range permitted _____
Method of Mixing _____
Type of Rollers _____

Project No. _____
County _____
Contractor _____
Length of Project (Mi.) _____
Progress to Date: (incl. this report) _____
Processed: Lin. Ft. _____
Sq. Yds. _____
Lime Allowed: Lbs. _____
Percent Complete _____

SECTIONS PROCESSED

First Application: (A, B, C, D)						
Date _____						
Lane _____						
Station _____ to _____						
Station _____						
Net Length: Ft. _____						
Ave. Width: Ft. _____						
Square Yards _____						
Lime: % Specified _____						
Ordered: Lbs. _____						
Plus 5%: Lbs. _____						
Spread: Lbs. _____						
Allowed: Lbs. _____						
Time: _____						
Spread Begun: _____						
Incorp. Complete: _____						
Temperature: Low (°F) _____						
High (°F) _____						
Second Application (Class A); or Compaction after Mellowing Period (Class B)						
Date (A, B) * _____						
Lane (A, B) _____						
Station (A, B) _____ to _____						
Station (A, B) _____						
Net Length: Ft. (A) _____						
Ave. Width: Ft. (A) _____						
Square Yards (A) _____						
Lime: % Specified: (A) _____						
Ordered: Lbs. (A) _____						
Plus 5%: Lbs. (A) _____						
Spread: Lbs. (A) _____						
Allowed: Lbs. (A) _____						
Time: _____						
Spread Begun: (A) _____						
Incorp. Complete: (A) _____						
Temperature: Low (°F) (A) _____						
High (°F) (A) _____						
Pulverization: Percent (A, B, C) _____						
Depth: Actual (A, B, C) _____						

* Information to be shown for class(es) of treatment shown in ().
Reports for Classes A and B to be submitted after sections are completed.

Distribution:

Original: State Materials Engineer
cc: Contract Adm. Engineer (To be submitted with final estimate with tickets (pink copies) attached.)
District Materials Engineer
Project Engineer

Inspector

Project Engineer

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
SAMPLE INFORMATION CARD

1. **SAMPLE ID:** _____
2. **SAMPLE DATE:** _____
3. **CONTRACT ID:** _____
4. **PROJECT (FMS) NO.:** _____
5. **PAY ITEM NO.:** _____
6. **SAMPLE TYPE:** _____
7. **MATERIAL:** _____
8. **APL PRODUCT NAME (if applicable):** _____
9. **PRODUCER/SUPPLIER NAME:** _____
10. **PLANT (if applicable):** _____
11. **QUANTITY REP.:** _____
12. **SAMPLE UNIT(S):** _____
13. **INTENDED USE:** _____
14. **STATION NO.:** _____
15. **SAMPLED BY:** _____
16. **REQUESTED BY:** _____
17. **SAMPLED FROM:** _____
18. **LOT/BATCH NO.:** _____
19. **MIX DESIGN TYPE/CLASS:** _____
20. **MIX ID:** _____
21. **TEST(S) DESIRED:** _____
22. **REMARKS:** _____

NOTES: SAMPLE INFORMATION CARD

1. The Sample ID is the ID number used by SiteManager. This number will be assigned by the Materials Division Central Lab for samples submitted by County & Consultant Engineers.
2. The date the sample was taken.
3. This is the SiteManager Contract ID number (as applicable).
4. The Project Number is the FMS 12-Digit Number /Construction Number.
5. The Pay Item Number is the Contract Pay Item associated with the Material Sample (MDOT Projects Only).
6. The Type of Sample Taken. Choose from the following types: Job Control, Information, Mix Design, QA, Stock, State Aid, Source Approval, Research, IAS, and Recheck.
7. Material Name and/or Description.
8. The Brand Name of the Material as listed on the Approved Products List (for applicable materials).
9. The Original manufacturer or approved supplier of the material. (Not the Broker or Vendor)
10. The name of the plant supplying the material, or the Plant Number for Aggregate Sources. List according to the City in which the plant is located. If there are multiple locations within the same city, include a street name for clarification.
11. The quantity of material used on the project represented by the sample, or maximum permitted by SOP No. TMD 20-04-00-000.
12. The unit of measure for the sample (i.e. feet, square feet, pounds, etc.).
13. The intended use of the sample, as applicable.
14. The station number of the sampling location, as applicable.
15. The person's name who took the sample.
16. The project engineer's name or other authorized party that authorized the sample to be tested.
17. The location at which the sample was taken, including but not limited to roadway location, stockpile, etc.
18. The unique identifier that corresponds to the manufacturer's lot and/or batch number, as applicable.
19. The Mix Design type and/or class, as applicable.
20. The ID number assigned to the approved mix design for the sample taken, as applicable.
21. Indicate if the requested testing should include the standard tests run on the sample (to be denoted as "REGULAR") and/or any specific tests that should be run on the sample. For example, "Regular plus soundness and abrasion".
22. Specify anything that might clarify sample information or explain conditions or the circumstances pertaining to the sample.

The fields appearing in red/bold are required for Sample Testing. Samples submitted without this information will not be tested. Refer to the NOTES Section of this form for further instruction.

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
Materials Division
Jackson, Mississippi**

TMD-323
(Rev. 1-94)

CERTIFICATE OF STORAGE

Project Engineer _____ **Date** _____

Project Number _____ **County** _____

Contractor _____ **Sold to** _____

This is to certify that the following items are in storage at :

Producer _____ **Location** _____

MATERIAL	SIZE	LENGTH	TOTAL QUANTITY	UNIT NUMBER	DATE MANUFACTURED
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: _____

The above items have been inspected and found to meet all requirements and are designated for the above-captioned project.

Signed _____

Title _____

PC: Original and copy to P.E.
State Construction Division
District Materials Engineer
State Materials Engineer

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
JACKSON, MS
FIELD DENSITY REPORT FOR EMBANKMENTS
(MT - 16)

PROJECT _____
 COUNTY _____ CONTRACTOR _____ TECHNICIAN _____
 COMPONENT: Basement Soil _____ Design Soil _____ BORROW MAT'L: Class _____
 TREATMENT: None _____ Lime (by Wgt.), 1st Appl. _____ % 2nd Appl. _____ %
 DESIGN THICKNESS (Inches) _____ LIFT _____

1.	Lot No.					
2.	Lot Size					
3.	Date of Test					
4.	Time of Test					
5.	Station Limits of Lot					
6.	Station No. at Test Site					
7.	Location from Left Edge, Ft.					
8.	Depth Below Subgrade, Inches					
9.	Depth of Test, Inches					
S T D D E N S I T Y	10. Std. Density Curve No.					
	11. Optimum Moisture, %					
	12. Std. Density, PCF					
F I E L D D E N S I T Y	13. Gage Moisture Bias (+) or (-)					
	14. Dry Density, PCF					
	15. Moisture, %					
	16. Density, % of Std.					
VERIFICATION TESTS						
T E S T	17. Dry Density, PCF					
	18. Moisture, %					
	19. Density, % of Std.					
	20. Avg. Lot Density % of Std.					
21.	Required Density, % of Standard					

REMARKS: _____

DISTRIBUTION:
 Original - Project Engineer
 State Materials Engineer
 State Construction Engineer
 District Materials Engineer

Signed _____

Title _____

