

Asphalt Technology Division and MMS

Source Approval Process

- Receive Task Notification from ??? Material Engineer
 - Includes Contract #
 - Item #
 - Mix #
- Check for Mix Design approval
- Check to assure the mix meets the requirements in the Special Provisions
 - ESAL level
 - Mix Type
 - Band (mix size)
 - Binder Type

Source Approval Process

- If all conditions meet:
 - Source is approved.
 - Message is sent back to the Material Engineer.
 - Project Engineer can see that it has been approved on MMS. (such an improvement over the old system)
- If all conditions are NOT met, the mix is not sourced and returned to the Material Engineer.
- ATD can attempt to contact the asphalt mix producer to let them know that something needs to be corrected and resubmitted by the prime.

You Can Help Us Help You

Pre-Pave Meeting

Before One Drop of Asphalt is Ever Delivered to
the Job Site

Why is this so Important?

Pre-Pave Meeting

This is Where the Documentation for Asphalt
Material Clearance Begins

Testing Required for “Paving”

- 10 Random Cores
- 2 Random Box Samples

If all you do is overlay or just shave and pave, that will be all you need to know

But most projects have more than just “Shave & Pave”

Testing/Documentation is Required for “Everything Else”

- Patching
- Wedge and Level
- Low Tonnage
- Non-continuous paving
 - Thin Lift

Daily Communication between the project and ATD

- FMIS # (especially important for area-wide contracts)
 - Date
 - # of Samples taken
 - Tonnage accepted for payment
 - Is project complete?
 - PE's name
-
- Most importantly – Written explanation for exceptions to the sampling requirements
 - Independent from Contractor's Input

OOC90 Rev 09-04-17

MARYLAND STATE HIGHWAY ADMINISTRATION
OFFICE OF CONSTRUCTION

MDOT
MARYLAND DEPARTMENT
OF TRANSPORTATION
STATE HIGHWAY
ADMINISTRATION

QA Project Report - Mixture / Density Samples

Prepare Daily:
Email to: superpave@sha.state.md.us or Fax to: 410-787-0482
Email Directions: Complete this form, go to File or Office Button, Save as: OOC90_ContractID_Date
(Ex. OOC90_xx123456_03-05-10), Send To: Type in email address above and click Send.

Contract Number:

FMIS Number:

Mix Number:

Date Placed:

Actual Tonnage Placed:

Asphalt Production complete for this project / FMIS? Y/N

Number of Mix Samples Taken for SHA:

Ref: 504.03.10 One mixture sample per paving day per mix or one per 1000 tons of paving, whichever yields the higher frequency.

If no samples or insufficient samples taken, note reason:

Number of Density (core) samples taken:

Ref: 504.03.11 A minimum of 10 cores per day's paving per mix or two per 500 tons of paving per mix, whichever yields the higher frequency.

If no samples or insufficient samples taken, note reason:

Project Engineer/Office Engineer/Phone No. _____ Date _____

Samples Must Be Identified;

Samples were received that could not be Tested

Missing Contract Numbers

Missing Dates

No Material Identification

A Few Examples:

Ton 351.94

Load 16

Date 8/8/16

Time 1:45

Loc Exit Ramp

Ijamsville Rd.

5/19/16

North end of bridge

137+00 - 136+60

136+95 R/C

Contract: _____

Sample was taken: _____ Date _____ Time _____ am pm
(circle one)

Mix: _____

Tonnage (at time of sample): _____

Location (Station/GPS): _____

Comments: _____

Sampled By: _____

SHA Witness: _____

MARYLAND STATE HIGHWAY ADMINISTRATION OFFICE OF MATERIALS TECHNOLOGY

HMA FIELD COMPACTION REPORT - CORE METHOD (MSMT 459)

Date Laid: _____ Contract No.: _____ FAP No.: _____ Plant #Name: _____

Producer _____ Contractor _____

Comments: _____

Sampled By: _____

SHA Witness: _____

MSMT 459
March 2011

MARYLAND STATE HIGHWAY ADMINISTRATION OFFICE OF MATERIALS TECHNOLOGY

HMA FIELD COMPACTION REPORT - CORE METHOD (MSMT 459)

Sampled: _____ Date Laid: _____ Contract No.: _____ Item No.: _____ FAP No.: _____ Plant #Name: _____

Design No.: _____ Depth: _____ Laid Over: _____ Actual Tons Laid: _____ Cut By: _____

Processed By: _____ Core Diameter: _____ Transported By: _____ Received By: _____

Received at Lab: _____ Tested By: _____ Date Tested: _____

Type of Construction: SURFACE BASE W/L SHOULDER OTHER

Location: N E W S Lane: 1 2 3 4

CORE SAMPLE NUMBER	TIME OF CORE AM / PM	LOCATION (Indicate GPS Location and/or Station Number & Offset per MSMT 459) Offset	DENSITY RESULTS	Max. Specific Gravity	Core Thickness
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
AVERAGE					

Attach: Random Sampling Sheet MSMT 459
Original: Project Engineer

Pay Factor Distribution

- Density
- Mix
- Ride

Density and Mix Pay Factor Distribution

Comes from ATD lab team

Project personnel changes so rapidly that OOC's Assignment List and MMS postings can't keep up.

Need a secure, central location to post and store pay factors

Ride Pay Factor Distribution

Comes from ATD field team

Factors that affect amount of time to produce pay factor

- Obtaining the ride tolerance calculation form (PD-11) from PE on *AW* contracts
- Defect section consideration partnering
- Waiting on contractor's QC data

Tack

- Do not sample buckets.
- Call us to pick up if freezing overnight.



- Identify your sample
 - Label the side of the jug
 - Completed Form 88 including truck tag number
 - Include a Certificate Of Analysis
- Don't sample buckets
- Don't put sample in drop box if it's going to be real cold
 - No daily pickup December – April
 - Notify OMT for pickup or deliver directly to OMT Hanover

Bill Of Lading



HAMMAKER EAST, LTD.
Baltimore Plant
 3450 Asiatic Ave
 Baltimore, MD 21226

Plant Manager
Tom Randall

Office: 410-355-6363
 Fax: 410-335-6364

**TRUCK BILL OF LADING
 DELIVERY RECEIPT AND INVOICE**

BOL#: **410003112**

Charge To: **George & Lynch, Inc.**

Carrier: **1425** Destination: _____ Date: **3/5/2012**

Truck: **FLT-436** FLT-436 Time In: **5:30 am**

Trailer: **158** P.O. #: _____ Time Out: **6:08 am**

Driver: **BRIAN**

I CERTIFY THAT THIS TRAILER IS FREE OF CONTAMINATING MATERIAL UPON LOADING

Product on Tanker Prior to loading

In Case of Emergency:
 1-800-424-9300 CHEMTREC, IF DC USE 1-202-483-7616

Product	Description	Tank	
30.1001	CRS-1	17	

	Qty	Rate	Amount
Mat.	5,398.88	GAL	
Freight			
Tax		MDSLS	
Total			

The material referenced above meets PADOT specifications published in the 408 section 702 and Bulletin #25
 The Material Referenced above is certified to meet DC, DE, MD, PA, VA and WV D.O.T.
 Specifications for performance grade asphalt emulsions, AASHTO Materials Part II 14th Edition

Gross:	Tare:	Net Lbs:	Total Net (GAL):
74340	29200	45140	5,398.88

I certify that this material has been checked as to the compatibility with job aggregate and was loaded into above designated trailer on date and time stated and that this trailer contained no foreign matter that could contaminate the above described material when loaded.
 Warranty - All products manufactured by use are warranted to be first class materials and free from defects in material and workmanship.
 We make no warranty, expressed or implied, as to suitability of any of our products for any particular use, and we shall not be subject to liability from any damages resulting from their use in operation not under our direct control.

Certificate of Analysis



Hammaker East, Ltd.
 A subsidiary of Russell Standard Corp.
 3450 Asiatic Ave.
 Baltimore, Md, 21226

Phone: 410-355-6363
 Fax: 410-355-6364

Certificate of Analysis

Grade: CRS-1 Lot: 3-12 Tank: 17 Lot Gal: 29,000

Residue From Distillation: _____ 63.3

Penetration, 77°F, 100g., 5 Sec _____ 1

Ductility, 4C or 25C, 5cm/minute, cm _____ 1

Softening Point, Ring & Ball, Degrees C, (vendor Results) _____ 1

Elastic Recovery @ 10°C AASHTO T301 _____ 1

Viscosity, SSF @ 122°F _____ 29

Deumisibility, 35 ml 0.8% sodium dioctyl sulfosuccinate, % _____ 1

Classification Test _____ Pass

Storage Stability, 24 hr, % _____ 100%

Particle Charge _____ POS

Sieve Test, % _____ .02

Oil Distillate, by volume of emulsion, % _____ Trace

This Certificate Of Analysis exclusively certifies material manufactured and stored on location at Hammaker East - Baltimore plant. Third party distribution of this certification is unauthorized as Hammaker East claims no liability for material received through third party brokers. The referenced material is certified to meet DC, DE, MD, PA, VA, and WV D.O.T. Specifications.

Refinery Representative: *[Signature]* Date: 2-22-12

Will Contain Minimal Test Results (if any)

Technician's Signature