Individual Enrollment Ratings Sheet

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AMRL
AASHTO Materials Reference Laboratory

Individual Enrollment Rating Sheet

Hot Mix Asphalt Ignition Oven 27/28
Final Report Date: 2/5/2014

PSP Enrollment #3879
University of Arkansas
Fayetteville, Arkansas USA

Submitted by sgwill@uark.edu on 12/20/2013 at 11:50 AM

View Your Data Submission Details

The Z-Score indicates the number of standard deviations from the average value. The Z-Score is determined by the following calculation:

Z-Score = (Laboratory Test Result - Average Value) / (Standard Deviation)

The laboratory Rating calculation is based on the absolute value of the Z-Score (or number of standard deviations from the average). The following describes the laboratory Rating system:

- If Z-Score <= 1 Then Rating = 5
- If Z-Score > 1 And <= 1.5 Then Rating = 4
- If Z-Score > 1.5 And <= 2 Then Rating = 3
- If Z-Score > 2 And <= 2.5 Then Rating = 2
- If Z-Score > 2.5 And <= 3 Then Rating = 1
- If Z-Score > 3 Then Rating = 0

A negative sign on a Z-Score or Rating indicates that the laboratory's result was below the average, while a positive Z-Score or Rating indicates that the laboratory's result was above the average.

Asphalt Content by Ignition Method
Initial (as received) Mass of AMRL Pre-Mixed HMA Sample (for information only) (0.1 g) - T308/D6307
View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
1	909	**1606.5**	1603.61	**	**	**	**1603.3**	1603.49	**	**	**	**	**	**

Asphalt Content by Ignition Method
Correction Factor for Asphalt Binder Content (for information only) - T308/D6307
View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
2	913	**0.17**	0.135	**	**	**	**0.17**	0.135	**	**	**	**	**	**

Asphalt Content by Ignition Method
Corrected Asphalt Binder Content (0.01 percent) - T308/D6307
View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
3	914	**4.28**	4.333	0.088	**-0.61**	**-5**	**4.31**	4.332	0.088	**-0.25**	**-5**	0.052	**0.43**	**5**

Mechanical Analysis of HMA
Mass Removed by Washing Over the 75-µm (No. 200) Sieve (0.1 g) - T30/D5444
View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
4	903	**8**	113.10	**	**	**	**7.5**	107.29	**	**	**	**	**	**

Mechanical Analysis of HMA
Total Material Passing the 12.5-mm (1/2 in.) Sieve (0.1 percent) - T30/D5444
View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
5	913	**93.9**	92.67	0.55	**2.22**	**2**	**93.3**	93.13	0.58	**0.29**	**5**	0.46	**-1.63**	**-3**

Mechanical Analysis of HMA
Total Material Passing the 9.5-mm (3/8 in.) Sieve (0.1 percent) - T30/D5444
View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
6	913	**80.7**	81.01	0.48	**-0.63**	**-5**	**82.6**	82.25	0.50	**0.70**	**5**	0.40	**1.17**	**4**

Mechanical Analysis of HMA
Total Material Passing the 4.75-mm (No. 4) Sieve (0.1 percent) - T30/D5444
View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
7	913	**61.8**	61.68	0.36	**0.33**	**5**	**65.0**	64.59	0.38	**1.09**	**4**	0.27	**0.77**	**5**

Mechanical Analysis of HMA
Total Material Passing the 2.36-mm (No. 8) Sieve (0.1 percent) - T30/D5444
View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
8	913	**37.1**	37.24	0.50	**-0.28**	**-5**	**37.9**	37.28	0.53	**1.16**	**4**	0.37	**1.46**	**4**

Mechanical Analysis of HMA
Total Material Passing the 1.18-mm (No. 16) Sieve (0.1 percent) - T30/D5444

View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
9	913	**26.5**	25.93	**	**	**	**24.1**	23.88	**	**	**	**	**	**

Mechanical Analysis of HMA
Total Material Passing the 600-µm (No. 30) Sieve (0.1 percent) - T30/D5444
View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
10	913	**18**	17.36	**	**	**	**15.6**	15.41	**	**	**	**	**	**

Mechanical Analysis of HMA
Total Material Passing the 300-µm (No. 50) Sieve (0.1 percent) - T30/D5444
View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
11	913	**12.6**	12.13	**	**	**	**11.2**	11.02	**	**	**	**	**	**

Mechanical Analysis of HMA
Total Material Passing the 150-µm (No. 100) Sieve (0.1 percent) - T30/D5444
View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
12	912	**9.9**	9.40	0.51	**0.97**	**5**	**9.1**	8.77	0.49	**0.67**	**5**	0.28	**-0.44**	**-5**

Mechanical Analysis of HMA
Total Material Passing the 75-µm (No. 200) Sieve (0.01 percent) - T30/D5444
View Youden Diagram | View Performance Chart

		Sample 27					Sample 28					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
13	913	**8.32**	7.842	0.491	**0.97**	**5**	**7.80**	7.441	0.465	**0.77**	**5**	0.237	**-0.36**	**-5**

** Ratings Suppressed -- No Data Submitted or Data Out of Accepted Range

**** Suppressed Items:**
Asphalt Content by Ignition Method (*Initial (as received) Mass of AMRL Pre-Mixed HMA Sample (for information only)*) - For informational purposes only.
Asphalt Content by Ignition Method (*Correction Factor for Asphalt Binder Content (for information only)*) - For informational purposes only.
Mechanical Analysis of HMA (*Mass Removed by Washing Over the 75-µm (No. 200) Sieve*) - For informational purposes only.
Mechanical Analysis of HMA (*Total Material Passing the 1.18-mm (No. 16) Sieve*) - Ratings suppressed due to unaccountable irregularities in the data.
Mechanical Analysis of HMA (*Total Material Passing the 600-µm (No. 30) Sieve*) - Ratings suppressed due to unaccountable irregularities in the data.
Mechanical Analysis of HMA (*Total Material Passing the 300-µm (No. 50) Sieve*) - Ratings suppressed due to unaccountable irregularities in the data.

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