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Hot Mix Asphalt Ignition Oven 31/32 Final Report Date: 2/5/2016

PSP Enrollment #3879

University of Arkansas Fayetteville, Arkansas USA

Submitted by sqwill@uark.edu on 12/21/2015 at 9:20 AM

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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.

For more information on ratings, please review Proficiency Sample Ratings: Being Average Has Never Been So Good.

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 31					Sample 32			Repeata	bility(with	ın-lab)
	Total	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1 S	Z-Score	Lab
	Labs													Rating
1	1002	1610.5	1600.96	**	**	**	1603.2	1600.52	**	**	**	**	**	**

Asphalt Content by Ignition Method

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

				Sample 31					Sample 32			Repeata	bility(with	in-lab)
	Total	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
	Labs													Rating
2	1002	0.09	0.097	**	**	**	0.09	0.097	**	**	**	**	**	**

Asphalt Content by Ignition Method

Corrected Asphalt Binder Content (0.01 percent) - T308/D6307

View Youden Diagram | View Performance Chart

					Sample 31					Sample 32			Repeata	bility(with	in-lab)
Г		Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1S	Z-Score	Lab Rating
Г	3	1007	4.55	4.510	0.095	0.42	5	4.63	4.577	0.094	0.56	5	0.061	0.15	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 31					Sample 32			Repeata	bility(with	in-lab)
	Total Labs	Lab Data	Avg	1\$	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
4	992	97.8	75.93	**	**	**	96.5	82.16	**	**	**	**	**	**

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 31					Sample 32			Repeata	bility(withi	n-lab)
		Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1S	Z-Score	Lab Rating
	5	1003	90.3	90.15	0.76	0.20	5	90.1	90.10	0.72	0.00	5	0.54	-0.20	-5

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 31					Sample 32			Repeata	ibility(with	n-lab)
		Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
Ш		Labs													Rating
	6	1003	81.7	80.77	0.96	0.97	5	80.8	80.21	1.01	0.58	5	0.62	-0.39	-5

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 31					Sample 32			Repeata	bility(with	in-lab)
	Total	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1S	Z-Score	Lab
	Labs					_								Rating
7	1003	54.3	53.93	1.50	0.25	5	54.4	54.69	1.49	-0.19	-5	0.58	-0.80	-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 31					Sample 32			Repeata	bility(with	in-lab)
П		Total	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1S	Z-Score	Lab
		Labs													Rating
	8	1003	38.3	37.96	1.50	0.22	5	39.7	39.77	1.50	-0.05	-5	0.63	-0.46	-5

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 31					Sample 32			Repeata	bility(withi	in-lab)
		Total	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1S	Z-Score	Lab
Ц		Labs													Rating
	9	1003	26.9	25.30	1.37	1.17	4	26.8	26.41	1.43	0.27	5	0.64	-1.34	-4

Mechanical Analysis of HMA

Total Material Passing the 600-µm (No. 30) Sieve (0.1 percent) - T30/D5444

view	Youden Diag	gram į view	Performan	ce Chart							
				Sample 31			Sample 32		Repeata	bility(withi	n-lab)

	Total Labs	Lab Data	Avg	1 S	Z-Score	Rating	Lab Data	Avg	1\$	Z-Score	Rating	1\$	Z-Score	Lab Rating
10	1003	18.4	16.39	1.19	1.69	3	17.6	16.97	1.30	0.48	5	0.64	-1.54	-3

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 31					Sample 32			Repeata	bility(with	in-lab)
		Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	1\$	Z-Score	Rating	15	Z-Score	Lab Rating
-	11	1003	12.7	10.97	0.91	1.91	3	12.2	11.43	1.03	0.75	5	0.51	-1.34	- 4

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 31						Sample 32					Repeatability(within-lab)			
	Total	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab
	Labs													Rating
12	1003	9.2	7.89	0.75	1.74	3	9.2	8.42	0.83	0.94	5	0.37	-1.01	-4

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 31						Sample 32					Repeatability(within-lab)			
Г		Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score		
		Labs													Rating	
	13	1003	6.82	5.694	0.635	1.77	3	6.81	6.165	0.698	0.92	5	0.314	-1.08	-4	

Ratings Suppressed

** 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.

⁻⁻ No Data Submitted or Data Out of Accepted Range



