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# **Individual Enrollment Ratings Sheet**

Please Note:
1. To print this page, Click the 'View Printer Friendly Ratings' button below

To save this page on your computer, Click File > Save As...
Interested in our analysis method? You can view a description of our <u>PSP Analysis Method</u>.



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 <= 1.5 Then Rating = 3 |
  | 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

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 IO	uuen Diag	STAILI VIEW	renomian	Sample 27					Sample 28			Repeata	bility(withi	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	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 You	uden Diag	gram View	Performan	ice Chart										
				Sample 27					Sample 28			Repeata	bility(withi	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	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			Repeata	bility(with	in-lab)
	Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
	Labs													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

7	/iew Yoι	uden Diag	gram View	Performan	ce Chart										
					Sample 27					Sample 28			Repeata	bility(with	in-lab)
		Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
L		Labs													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			Repeata	ibility(with	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	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			Repeata	ability(with	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	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

•			, <u>, , , , , , , , , , , , , , , , , , </u>		Sample 27					Sample 28			Repeata	bility(withi	in-lab)
		Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	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 \_\_\_\_

*1011	aacii biaj	rain rierr	· ciroiinai	Sample 27					Sample 28			Repeata	bility(withi	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	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

				Sample 27					Sample 28			кереат	ability(withi	n-iab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
9	913	26.5	25.93	**	**	**	24.1	23.88	**	**	**	**	**	**
otal M	aterial Pa	rsis of HMA sssing the 60 gram   View	<b>00-μm (No.</b> Performan	30) Sieve (0 ce Chart Sample 27	.1 percent)	- T30/D54	44		Sample 28			Reneat	ability(withi	n-lah)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1S	Z-Score	Lab Rating
10	913	18	17.36	**	**	**	15.6	15.41	**	**	**	**	**	**
lechan	ical Analy aterial Pa	rsis of HMA sssing the 30 gram   View			.1 percent)	- T30/D54	44							
Mechan Fotal M View Yo	ical Analy aterial Pa uden Dias Total Labs	ssing the 30 gram   View   Lab Data	<u>Avg</u>	Sample 27	Z-Score	Rating	Lab Data	Avg	Sample 28	Z-Score	Rating	15	ability(withi	Lab Rating
lechan	ical Analy aterial Pa uden Dias	ssing the 30 gram   View	Performan	ce Chart Sample 27				Avg 11.02		Z-Score	Rating **			Lab
Mechan Fotal M /iew Yo 11 Mechan Fotal M	ical Analy aterial Pa uden Diag Total Labs 913 ical Analy aterial Pa uden Diag	ssing the 30 gram   View  Lab Data   12.6  rsis of HMA sssing the 15 gram   View	Avg 12.13 60-µm (No. Performan	Sample 27  1S  **  100) Sieve ( ce Chart Sample 27	Z-Score  **  0.1 percent	** - T30/D5	Lab Data   11.2	11.02	1S ** Sample 28	**	**	1S  **  Repeat	Z-Score **	Lab Rating **
Mechan Total M View Yo  11  Mechan Total M	ical Analy aterial Pa uden Diag Total Labs 913 ical Analy aterial Pa	Lab Data  12.6  25 of HMA assing the 15	Avg 12.13 60-μm (No.	Sample 27  1S  **  100) Sieve (ce Chart	Z-Score	Rating **	Lab Data		15			15	Z-Score **	Lab Rating **

Z-Score

0.77

Rating

Z-Score

Lab Rating

913 Ratings Suppressed

Total

Lab Data

View Youden Diagram | View Performance Chart

7.441

0.465

\*\* 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 300-µm (No. 50) Sieve) - Ratings suppressed due to unaccountable irregularities in the data.

Lab Data

7.80

Rating

Back View Sample Round Analysis View Printer Friendly Ratings

Z-Score

0.97

15

0.491

7.842





<sup>--</sup> No Data Submitted or Data Out of Accepted Range