

SEARCH Logged in as: sgwill@uark.edu | Logout

Home

My Tab

About Us

**AASHTO Accreditation** 

**Laboratory Assessments** 

**Proficiency Samples** 

FWD

Library

Resources



Coarse Aggregate 181/182 Final Report Date: 11/6/2013

PSP Enrollment #3879 University of Arkansas Fayetteville, Arkansas USA

Submitted by sgwill@uark.edu on 10/7/2013 at 6:48 PM

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</li>
  If Z-Score > 1.5 And <= 2 Then Rating = 3</li>
  If Z-Score > 2 And <= 2.5 Then Rating = 2</li>
- If Z-Score > 2.5 And <= 3 Then Rating = 1</li>
   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.

Material Finer Than 75-µm (No. 200) Sieve

Percentage Finer than the 75-μm sieve by washing (0.01 percent) - T11/C117 View Youden Diagram | View Performance Chart

					Sample 181					Sample 182			Repeata	ability(with	in-lab)
		Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
		Labs													Rating
. [	1	1650	0.06	0.056	0.028	0.15	5	0.06	0.055	0.029	0.17	5	0.011	0.05	5

Sieve Analysis of Aggregates Total Material Passing the 25.0-mm (1-in.) Sieve (0.1 percent) - T27/C136

View Yo	uden Diag	gram   View	Pertorman	ce Chart											
				Sample 181					Sample 182			Repeata	bility(with	in-lab)	
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating	
2	1660	100	99.92	**	**	**	100	99.91	**	**	**	**	**	**	

Sieve Analysis of Aggregates

Total Material Passing the 19.0-mm (3/4-in.) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

Sample 181

*****	 aucii Diuj	statil view		Sample 181					Sample 182			Repeata	bility(with	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1S	Z-Score	Lab Rating
3	1659	86.0	86.06	0.46	-0.13	-5	84.3	84.50	0.43	-0.46	-5	0.33	-0.31	-5

Sieve Analysis of Aggregates
Total Material Passing the 12.5-mm (1/2-in.) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

		<u> </u>		Sample 181					Sample 182			Repeata	bility(withi	n-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
				1.00										Rating
4	1660	48.5	47.87	1.68	0.38	5	49.6	48.42	1.74	0.68	5	0.78	0.50	5

Sieve Analysis of Aggregates

Total Material Passing the 9.5-mm (3/8-in.) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

				Sample 181					Sample 182			Repeata	bility(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	1659	14.7	14.01	0.55	1.24	4	13.3	13.32	0.51	-0.05	-5	0.37	-1.37	-4

Sieve Analysis of Aggregates

Total Material Passing the 4.75-mm (No. 4) Sieve (0.1 percent) - T27/C136
View Youden Diagram | View Performance Chart
Sample 181

VIC	** 10	<i>-</i>	acii Diap	statil view	remonina	Sample 181					Sample 182			Repeata	bility(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	T	1660	0.5	0.46	0.20	0.20	5	0.4	0.46	0.20	-0.30	-5	0.07	-1.01	-4

Coarse Aggregate Specific Gravity and Absorption Bulk Specific Gravity [or Relative Density, OD for C127] - T85/C127 View Youden Diagram | View Performance Charles

				Sample 181					Sample 182			Repeata	bility(with	n-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1\$	Z-Score	Lab Rating
7	1554	2.618	2.6169	0.0051	0.21	5	2.619	2.6162	0.0050	0.55	5	0.0028	0.44	5

Coarse Aggregate Specific Gravity and Absorption Bulk Specific Gravity, SSD [or Relative Density, SSD for C127] - T85/C127 View Youden Diagram | View Performance Chart

				Sample 181					Sample 182			Repeata	bility(with	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
8	1554	2.628	2.6280	0.0039	0.00	-5	2.629	2.6274	0.0037	0.43	5	0.0022	0.50	5

Coarse Aggregate Specific Gravity and Absorption
Apparent Specific Gravity [or Apparent Relative Density for C127] - T85/C127
View Youden Diagram | View Performance Chart

				Sample 181					Sample 182			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
9	1553	2.644	2.6467	0.0033	-0.81	-5	2.646	2.6462	0.0028	-0.08	-5	0.0019	0.92	5

Coarse Aggregate Specific Gravity and Absorption

Absorption (0.01 percent) - T85/C127

View Youden Diagram | View Performance Chart
Sample 181 ample 182 Repeatability(within-lab) Lab Data 15 Z-Score Rating Lab Data Avg 15 Z-Score Rating 15 Z-Score Lab Rating Labs 10 1555 0.38 0.434 0.066 -0.81 -5 0.39 0.435 0.066 -0.68 -5 0.030 0.21

Abrasion of Coarse Aggregate
Percentage of Loss by Abrasion and Impact (0.01 percent) - T96/C131

<u>View Youden Diagram</u> | <u>View Performance Chart</u> Sample 181 Sample 182 Repeatability(within-lab) Total Lab Data 15 Z-Score Rating Lab Data Avg 15 Z-Score Rating 15 Z-Score Lah Rating 48.204 11 584 47.568 1.968 1.846

Sulfate Soundness of Aggregates
Sodium Sulfate-Percentage of 19.0 to 9.5-mm fraction passing 8.0-mm sieve (0.01 percent) - T104/C88
View Youden Diagram | View Performance Chart | Sample 181 | Sample 1 Repeatability(within-lab) Z-Score Rating Z-Score Rating Avg 15 15 Lab Labs 346 Rating 0.300 0.322 0.279 12 0.321

Sulfate Soundness of Aggregates

Sodium Sulfate-Percentage of 9.5 to 4.75-mm fraction passing 4.0-mm sieve (0.01 percent) - T104/C88

View Youden Diagram | View Performance Chart
Sample 181 Sample Sample 182 Repeatability(within-lab) 15 Rating 15 Z-Score Rating Z-Score Lab Data Avg Z-Score Lab Data Avg 15 Labs Rating 345 13 0.416 0.308 0.429 0.314

Sulfate Soundness of Aggregates

Magnesium Sulfate-Percentage of 19.0 to 9.5-mm fraction passing 8.0-mm sieve (0.01 percent) - T104/C88 View Youden Diagram | View Performance Chart

	aacii Diaj	rain riew		Sample 181					Sample 182			Repeata	bility(withi	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	15	Z-Score	Lab Rating
14	165		0.553	0.411				0.585	0.418					

Sulfate Soundness of Aggregates

Magnesium Sulfate-Percentage of 9.5 to 4.75-mm fraction passing 4.0-mm sieve (0.01 percent) - T104/C88 View Youden Diagram | View Performance Chart

<u>ce Chart</u> Sample 181 ample 182 Repeatability(within-lab) Total Lab Data 15 Z-Score Rating Lab Data Avg 15 Z-Score Rating 15 Z-Score Lah Rating Labs 0.889

Ratings Suppressed

No Data Submitted or Data Out of Accepted Range

## \*\* Suppressed Items:

Sieve Analysis of Aggregates (Total Material Passing the 25.0-mm (1-in.) Sieve) - Since nearly all laboratories submitting results for Test No. 2 reported 100 percent passing, no ratings have been assigned for this test and the scatter diagram on the AMRL website has been omitted.



