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AASHTO Materials Reference Laboratory **Individual Enrollment Rating Sheet**

Fine Aggregate 187/188 Final Report Date: 4/1/2015

PSP Enrollment #3879 University of Arkansas Fayetteville, Arkansas USA

Submitted by sgwill@uark.edu on 2/20/2015 at 1:43 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
- 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.

 $For more information on ratings, please review \underline{Proficiency Sample \ Ratings: Being \ Average \ Has \ Never \ Been}$

Material Finer Than 75-µm (No. 200) Sieve Total Oven Dry Mass of Specimen Before Washing (0.1 g) - T11/C117

| view to | Juen Dia | graiii view | Periorillan | Le CHart | | | | | | | | | | | |
|---------|---------------|-------------|-------------|------------|---------|--------|----------|--------|------------|---------|--------|---------|-------------|---------------|--|
| | | | | Sample 187 | | | | | Sample 188 | | | Repeata | bility(with | n-lab) | |
| | Total Labs | Lab Data | Avg | 1\$ | Z-Score | Rating | Lab Data | Avg | 1\$ | Z-Score | Rating | 15 | Z-Score | Lab Rating | |
| 1 | 1769 | 511.9 | 510.06 | ** | ** | ** | 510.1 | 510.39 | ** | ** | ** | ** | ** | ** | |

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

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

| _ | | | | | Sample 187 | | | | | Sample 188 | | | 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 |
| | 2 | 1768 | 0.86 | 0.707 | 0.233 | 0.66 | 5 | 0.90 | 0.734 | 0.255 | 0.65 | 5 | 0.069 | 0.13 | 5 |

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

| Ξ | | | | | Sample 187 | | | | | Sample 188 | | | Repeata | bility(with | n-lab) |
|---|---|---------------|----------|-------|------------|---------|--------|----------|-------|------------|---------|--------|---------|-------------|---------------|
| | | Total Labs | Lab Data | Avg | 15 | Z-Score | Rating | Lab Data | Avg | 15 | Z-Score | Rating | 15 | Z-Score | Lab Rating |
| | 3 | 1775 | 99 | 98.58 | ** | ** | ** | 99.3 | 98.62 | ** | ** | ** | ** | ** | ** |

Sieve Analysis of Aggregates

Total Material Passing the 2.36-mm (No. 8) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

| Ī | | · | | Sample 187 | | | | | Sample 188 | | | Repeata | bility(withi | in-lab) |
|---|---------------|----------|-------|------------|---------|--------|----------|-------|------------|---------|--------|---------|--------------|---------------|
| | Total Labs | Lab Data | Avg | 1\$ | Z-Score | Rating | Lab Data | Avg | 15 | Z-Score | Rating | 15 | Z-Score | Lab Rating |
| ŀ | 1774 | 84.1 | 84.45 | 0.16 | -2.22 | -2 | 86.3 | 86.31 | 0.08 | -0.19 | -5 | 0.11 | 2.08 | nating 2 |

Sieve Analysis of Aggregates
Total Material Passing the 1.18-mm (No. 16) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

| | | | | Sample 187 | | | | | Sample 188 | | | 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 |
| 5 | 1775 | 72.0 | 72.12 | 0.39 | -0.31 | -5 | 74.5 | 74.18 | 0.38 | 0.85 | 5 | 0.20 | 1.58 | 3 |

Sieve Analysis of Aggregates

Total Material Passing the 600-μm (No. 30) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

| | | <u> </u> | | Sample 187 | | | | | Sample 188 | | | 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 |
| 6 | 1775 | 51.5 | 51.75 | 0.77 | -0.32 | -5 | 53.6 | 53.31 | 0.78 | 0.37 | 5 | 0.27 | 1.43 | 4 |

Sieve Analysis of Aggregates

Total Material Passing the 300-μm (No. 50) Sieve (0.1 percent) - T27/C136 View Youden Diagram View Performance Chart

| | | · | | Sample 187 | | | | | Sample 188 | | | Repeata | bility(with | in-lab) |
|---|--------------|----------|-------|------------|---------|--------|----------|-------|------------|---------|--------|---------|-------------|---------|
| | Total | Lab Data | Avg | 15 | Z-Score | Rating | Lab Data | Avg | 15 | Z-Score | Rating | 1S | Z-Score | |
| 7 | Labs 1775 | 20.6 | 20.49 | 0.77 | 0.14 | | 21.0 | 20.93 | 0.79 | 0.09 | - | 0.21 | -0.13 | Rating |
| | 11//3 | 20.0 | 20.45 | 0.77 | 0.14 | | 21.0 | 20.55 | 0.75 | 0.05 |) | 0.21 | -0.13 | -5 |

Sieve Analysis of Aggregates

Total Material Passing the 150-µm (No. 100) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

| | | | | Sample 187 | | | | | Sample 188 | | | Repeata | bility(withi | in-lab) |
|---|---------------|----------|------|------------|---------|--------|----------|------|------------|---------|--------|---------|--------------|---------------|
| | Total Labs | Lab Data | Avg | 1S | Z-Score | Rating | Lab Data | Avg | 1S | Z-Score | Rating | 1S | Z-Score | Lab Rating |
| 8 | 1775 | 3.8 | 3.44 | 0.36 | 0.99 | 5 | 3.8 | 3.44 | 0.37 | 0.96 | 5 | 0.11 | 0.00 | -5 |

Sieve Analysis of Aggregates

Total Material Passing the 75-µm (No. 200) Sieve (0.01 percent) - T27/C136

| view yo | uden Diag | <u>gram view</u> | Performan | ce Chart | | | | | | | | | | |
|---------|---|--------------------|-----------|------------|------|---|------|-------|------------|---------|--------|---------|--------------|---------------|
| | | | | Sample 187 | | | | | Sample 188 | | | Repeata | bility(withi | n-lab) |
| | Total Lab Data Avg 1S Z-Score Rating Lab Da | | | | | | | Avg | 15 | Z-Score | Rating | 15 | Z-Score | Lab Rating |
| 9 | 1773 | 0.96 | 0.819 | 0.240 | 0.59 | 5 | 0.96 | 0.844 | 0.259 | 0.45 | 5 | 0.079 | -0.22 | -5 |

| 1. | CII Diag | gram View | Performan | ty, Oven Dry nce Chart Sample 187 | .5, 6120] - | .0-/0120 | | | Sample 188 | | | Dor | bility(with | in lah) |
|--|--|--|--|---|--|---|--------------|-------------------------------|---|---------------------------------|----------------------|--|---|--|
| | Total | Lab Data | Avg | 1S | Z-Score | Rating | Lab Data | Avg | 15 | Z-Score | Rating | 1S | Z-Score | Lab |
| | Labs 1590 | 2.618 | 2.6064 | 0.0132 | 0.88 | 5 | 2.616 | 2.6059 | 0.0130 | 0.78 | 5 | 0.0067 | -0.15 | Rating -5 |
| oore | gate Sr | ecific Gravi | ty and Δhs | orntion | | | | | | | | | | |
| ecit | fic Gra | | r Relative [| Density, SSD f | or C128] - | T84/C128 | | | | | | | | |
| | | | | Sample 187 | 176 | D 11 | 1 | | Sample 188 | 176 | n .: | | bility(with | |
| | Total Labs | Lab Data | Avg | 15 | Z-Score | Rating | Lab Data | Avg | 15 | Z-Score | Rating | 15 | Z-Score | Lab Rating |
| | 1590 | 2.631 | 2.6228 | 0.0107 | 0.77 | 5 | 2.629 | 2.6223 | 0.0108 | 0.62 | 5 | 0.0056 | -0.19 | -5 |
| ggre | gate Sp | ecific Gravi | ty and Abs | orption : Relative De n | sity for C1 | 281 - T84/ | C128 | | | | | | | |
| | | ram View | Performan | | , | , | | | Sample 188 | | | Reneata | bility(with | in-lah) |
| | Total Labs | Lab Data | Avg | 1S | Z-Score | Rating | Lab Data | Avg | 15 | Z-Score | Rating | 15 | Z-Score | Lab Rating |
| | 1590 | 2.652 | 2.6503 | 0.0095 | 0.18 | 5 | 2.652 | 2.6501 | 0.0096 | 0.20 | 5 | 0.0050 | 0.03 | 5 |
| \ggre _i | gate Sp | ecific Gravi | ty and Abs | orption | | | | | | | | | | |
| | | percent) - T gram View | | ice Chart | | | | | | | | | | |
| Τ. | Total | Lab Data | Avg | Sample 187 | Z-Score | Rating | Lab Data | Avg | Sample 188 | Z-Score | Rating | Repeata 1S | bility(with Z-Score | in-lab) Lab |
| | Labs 1586 | 0.48 | 0.626 | 0.160 | -0.91 | -5 | 0.52 | 0.629 | 0.160 | -0.68 | -5 | 0.069 | 0.38 | Rating 5 |
| | | | 0.020 | 1 0.100 | 1 -0.31 | -5 | U.JZ | 0.029 | 1 0.100 | -0.00 | -5 | 0.003 | 1 0.30 | , , |
| -Dev | al Abra al Abr a | sion Loss (r | nearest 0.1 | .%) (0.1 perce | nt) - D742 | 3 | | | | | | | | |
| Youd | en Diag | ram View | | ce Chart Sample 187 | | | | | Sample 188 | | | Repeata | bility(with | in-lab) |
| | Total Labs | Lab Data | Avg | 1S | Z-Score | Rating | Lab Data | Avg | 15 | Z-Score | Rating | 15 | Z-Score | Lab Rating |
| \perp | 51 | | 6.53 | 1.16 | | | | 6.54 | 1.12 | | | | | |
| | alent T | | | | | | | | | | | | | |
| Equiv Youd | ralent \ en Diag | /alue (whol gram <u>View</u> | Performan | | oer) - T176 | /D2419 | | | | | | | | |
| 1. | Total | Lab Data | Avg | Sample 187 | Z-Score | Rating | Lab Data | Avg | Sample 188 | Z-Score | Rating | Repeata 1S | bility(with Z-Score | in-lab) Lab |
| | Labs 906 | | 79.0 | 3.8 | | | | 79.4 | 3.7 | | | | | Rating |
| | | | | <u>j 5.0</u> | ļ. | | | 75.4 | 1 3.7 | | | ı | 1 | |
| rial Fi | iner Th | | -mm Sieve | e, Na (0.01 per | rcent) - T10 | 04/C88 | | | | | | | | |
| Youd | en Diag | gram View | | Sample 187 | | | | | Sample 188 | | | Repeata | bility(with | |
| | Total Labs | Lab Data | Avg | 1S | Z-Score | Rating | Lab Data | Avg | 1S | Z-Score | Rating | 1\$ | Z-Score | Lab Rating |
| | 327 | | 2.063 | 1.116 | | | | 1.997 | 1.106 | | | | | |
| e Sou | indnes | s of Aggrega | ates | Na (0.01 pero | ont) T10 | 1/000 | | | | | | | | |
| | | ram View | Performan | nce Chart | .ent) - 1104 | 1/000 | | | CI- 100 | | | D | Lilla/tale | :- !-!-\ |
| | | Lab Data | Avg | Sample 187 | Z-Score | Rating | Lab Data | Avg | Sample 188 | Z-Score | Rating | 1S | bility(with Z-Score | Lab |
| - ' | Total | | | | | | | 1.496 | 0.813 | | | | | Rating |
| | Total Labs 327 | | 1.540 | 0.819 | | | | 1.450 | | | | | | |
| | Labs 327 | | | 0.819 | 1 | | | 1.450 | 1 0.013 | | | | | |
| e Sou | Labs 327 Indnes iner Th | of Aggrega an the 300- | ates · μm Sieve, | Na (0.01 perc | | I/C88 | | 1.450 | 1 0.013 | , | | ı | | |
| e Sou rial Fi Youd | Labs 327 Indnes iner Th en Diag | s of Aggrega an the 300- gram View | ates µm Sieve, Performan | Na (0.01 pero nce Chart Sample 187 | ent) - T104 | | | | Sample 188 | | | Repeata | bility(with | in-lab) |
| e Sou rial Fi Youd | Labs 327 undnes iner Th en Diag Total Labs | s of Aggrega an the 300- gram View Lab Data | ates µm Sieve, Performan | Na (0.01 peronce Chart Sample 187 | ent) - T104 | Rating | Lab Data | Avg | Sample 188 | Z-Score | Rating | Repeata 1S | bility(with Z-Score | in-lab) Lab Rating |
| e Sou rial Fi Youd | Labs 327 Indnes iner Th en Diag | s of Aggrega an the 300- gram View | ates µm Sieve, Performan | Na (0.01 pero nce Chart Sample 187 | ent) - T104 | | Lab Data | | Sample 188 | | Rating | Repeata | | in-lab) |
| e Sou rial Fi Youd | Labs 327 undnes iner Th en Diag Total Labs 327 undnes | s of Aggrega an the 300- gram View Lab Data | Avg 1.425 | Na (0.01 pero nce Chart Sample 187 1S 0.814 | Z-Score | Rating | | Avg | Sample 188 | Z-Score | | Repeata 1S | Z-Score | in-lab) Lab Rating |
| e Sou rial Fi Youd | Labs 327 undnes iner Th en Diag Total Labs 327 undnes iner Th | s of Aggrega an the 300- gram View Lab Data | Avg 1.425 ates -mm Sieve Performan | Na (0.01 perconce Chart Sample 187 1S 0.814 | Z-Score | Rating | | Avg | Sample 188 15 0.833 | Z-Score | | Repeata 1S | Z-Score | in-lab) Lab Rating |
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| Soudal Fi | Labs 327 Indness Indness 327 Indness 327 Indness Indness 327 Indness Indness Indness Inds Indness Indn | s of Aggrega an the 300- rram View Lab Data | Avg 1.425 Avg 1.425 Avg 6.777 Avg 4.852 ates Avg 4.017 of Fine Agg m# 1 (0.01) | Na (0.01 perce Chart Sample 187 15 0.814 2, Mg (0.01 perce Chart Sample 187 15 4.157 Mg (0.01 perce Chart Sample 187 15 2.700 Mg (0.01 perce Chart Sample 187 15 2.700 Mg (0.01 perce Chart Sample 187 15 2.134 | Z-Score | Rating 04/C88 Rating 4/C88 Rating 4/C88 Rating 4/C88 | Lab Data | Avg 1.430 Avg 6.846 Avg Avg | Sample 188 | Z-Score Z-Score Z-Score Z-Score | Rating Rating Rating | Repeata 15 Repeata 15 Repeata 15 Repeata 15 | z-Score bility(with z-Score bility(with z-Score bility(with z-Score | in-lab) Lab Rating in-lab) Lab Rating in-lab) Lab Rating in-lab) Lab Rating |

| | Total Labs | Lab Data | Avg | 15 | Z-Score | Rating | Lab Data | Avg | 15 | Z-Score | Rating | 15 | Z-Score | Lab Rating |
|----|---------------|----------|--------|----|---------|--------|----------|--------|----|---------|--------|----|---------|---------------|
| 22 | 648 | 45.25 | 45.372 | ** | ** | ** | 45.36 | 45.431 | ** | ** | ** | ** | ** | ** |

Uncompacted Void Content of Fine Aggregate Uncompacted Voids, Test Run # 2 (0.01 percent) - T304/C1252

| - 2 | view you | Juen Dias | gram view | Periormani | Sample 187 | | | | | Sample 188 | | | Repeata | ability(with | in-lab) |
|-----|----------|---|-----------|------------|------------|----|----|-------|--------|------------|---------|--------|---------|--------------|---------------|
| | | Total Lab Data Avg 1S Z-Score Rating Labs | | | | | | | Avg | 15 | Z-Score | Rating | 15 | Z-Score | Lab Rating |
| | 23 | 648 | 45.18 | 45.368 | ** | ** | ** | 45.36 | 45.434 | ** | ** | ** | ** | ** | ** |

Uncompacted Void Content of Fine Aggregate
Uncompacted Voids, Average of Two Runs (0.01 percent) - T304/C1252
View Youden Diagram | View Performance Chart

| | Sample 187 | | | | | | | Sample 188 | | | | | Repeatability(within-lab) | | |
|----|------------|----------|--------|-------|---------|--------|----------|------------|-------|---------|--------|-------|---------------------------|--------|--|
| | Total | Lab Data | Avg | 15 | Z-Score | Rating | Lab Data | Avg | 15 | Z-Score | Rating | 1S | Z-Score | Lab | |
| | Labs | | | | | _ | | _ | | | | | | Rating | |
| 24 | 649 | 45.21 | 45.363 | 0.533 | -0.29 | -5 | 45.36 | 45.425 | 0.528 | -0.12 | -5 | 0.239 | 0.26 | 5 | |

Ratings Suppressed

** Suppressed Items:
Material Finer Than 75-µm (No. 200) Sieve (Total Oven Dry Mass of Specimen Before Washing) - For informational purposes only. Sieve Analysis of Aggregates (Total Material Passing the 4.75-mm (No. 4) Sieve) - For informational purposes only. Uncompacted Void Content of Fine Aggregate (Uncompacted Voids, Test Run # 1) - For informational purposes only. Uncompacted Void Content of Fine Aggregate (Uncompacted Voids, Test Run # 2) - For informational purposes only.





⁻⁻ No Data Submitted or Data Out of Accepted Range