

ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

STATE JOB NO. 070563

FEDERAL AID PROJECT NO. NHPP-0010(54)

HWY. 53 STRS. & APPRS. (CLARK CO.) (S)

STATE HIGHWAY 53 SECTION 0

IN CLARK COUNTY

The information contained herein was obtained by the Department for design and estimating purposes only. It is being furnished with the express understanding that said information does not constitute a part of the Proposal or Contract and represents only the best knowledge of the Department as to the location, character and depth of the materials encountered. The information is only included and made available so that bidders may have access to subsurface information obtained by the Department and is not intended to be a substitute for personal investigation, interpretation and judgment of the bidder. The bidder should be cognizant of the possibility that conditions affecting the cost and/or quantities of work to be performed may differ from those indicated herein.

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

June 30, 2014

TO: Mr. Jeff Venable, District Engineer

SUBJECT: Job No. 070265
Hwy. 51 – I30 (S)
Route 53 Section 0
Clark County

Transmitted herewith is the requested Soil Survey, Strength Data and Resilient Modulus test results for the above referenced job. The project consists of resurfacing and shoulder improvements to approximately 5.6 miles of Highway 53. Samples were taken in the existing travel lanes, and ditch line. There were no paved shoulders within the project limits. Stations are noted as log mile and locations were measured from centerline of the existing roadway.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of low plasticity sand with clay. The subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction. If a stable working platform cannot be achieved, stabilization with Portland cement is the most appropriate remediation technique. The addition of 9% Portland cement (by dry weight) mixed to a depth of 16 inches should be used for quantity estimation purposes. However, if the Engineer determines that stabilization is needed; local experience or field trials may dictate that a stable working platform can be achieved at a lower Portland Cement content.

Listed below is the additional information requested for use in developing the plans:

1. The Qualified Products List (QPL) indicates that Aggregate Base Course (Class CL-7) is available from commercial producers in the vicinity of Bismarck.

2. Asphalt Concrete Hot Mix

<u>Type</u>	<u>Asphalt Cement %</u>	<u>Mineral Aggregate %</u>
Surface Course	5.3	94.7
Binder Course	4.3	95.7
Base Course	4.0	96.0



Michael C. Benson
Materials Engineer

MCB:pt:bjj
Attachment

cc: State Constr. Eng. – Master File Copy
Roadway Design
Transportation Planning and Policy Div.
G. C. File

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY STRENGTH TEST REPORT ***

DATE - 06/27/2014
JOB NUMBER - 070265

SEQUENCE NO. - 1
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 10
DISTRICT NO. - 07

JOB NAME - HWY.51 - I30 (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB	15
RESILIENT MODULUS	
L.M. 10.7	8416
L.M. 12.5	8881
L.M. 13.7	8833
L.M. 14.9	9299
L.M. 16.1	9228

REMARKS -

-
AASHTO TESTS : T190

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No.	070265	Material Code	SSRVPS
Date Sampled:	06/24/14	Station No.:	LM10.7
Date Tested:	June 24, 2014	Location:	22'RT
Name of Project:	HWY. 51 I-30 (S)		
County:	Code: 10	Name: CLARK	
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20141936	AASHTO Class:	A-6(4)
Sample ID:	RV703	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

1. Testing Information:

Preconditioning - Permanent Strain > 5% (Y=Yes or N= No)	N
Testing - Permanent Strain > 5% (Y=Yes or N=No)	N
Number of Load Sequences Completed (0-15)	15

2. Specimen Information:

Specimen Diameter (in):	
Top	3.95
Middle	3.94
Bottom	3.95
Average	3.95
Membrane Thickness (in):	0.00
Height of Specimen, Cap and Base (in):	8.03
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.03
Initial Area, Ao (sq. in):	12.23
Initial Volume, AoLo (cu. in):	98.24

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3174.00
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4. Soil Properties:

Optimum Moisture Content (%):	13.6
Maximum Dry Density (pcf):	112.7
95% of MDD (pcf):	107.1
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3174.00
Compaction Moisture content (%):	13.9
Compaction Wet Density (pcf):	123.11
Compaction Dry Density (pcf):	108.09
Moisture Content After Mr Test (%):	14.2

6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable):

#VALUE!

7. Resilient Modulus, Mr:

12901(S_c)^{-0.27018}(S₃)^{0.24338}

8. Comments

9. Tested By:

DEB _____

Date: June 24, 2014 _____

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No. 070265 **Material Code** SSRVPS
Date Sampled: 06/24/14 **Station No.:** LM10.7
Date Tested: June 24, 2014 **Location:** 22'RT
Name of Project: HWY. 51 I-30 (S)
County: Code: 10 **Name:** CLARK
Sampled By: FAULKNER **Depth:** 0-5
Lab No.: 20141936 **AASHTO Class:** A-6(4)
Sample ID: RV703 **Material Type (1 or 2):** 2
LATITUDE: **LONGITUDE:**

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied Max. Axial Load	Actual Applied Cyclic Load	Actual Applied Contact Load	Actual Applied Max. Axial Stress	Actual Applied Cyclic Stress	Actual Applied Contact Stress	Average Recov Def. LVDT 1 and 2	Resilient Strain	Resilient Modulus
DESIGNATION	S ₃	S _{cyclic}	P _{max}	P _{cyclic}	P _{contact}	S _{max}	S _{cyclic}	S _{contact}	H _{avg}	ε _r	M _r
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.2	22.4	2.8	2.1	1.8	0.2	0.00089	0.00011	16,486
Sequence 2	6.0	4.0	47.1	44.3	2.8	3.8	3.6	0.2	0.00193	0.00024	15,057
Sequence 3	6.0	6.0	69.5	65.8	3.7	5.7	5.4	0.3	0.00317	0.00040	13,604
Sequence 4	6.0	8.0	92.3	86.1	6.1	7.5	7.0	0.5	0.00479	0.00060	11,798
Sequence 5	6.0	10.0	113.8	105.2	8.7	9.3	8.6	0.7	0.00666	0.00083	10,368
Sequence 6	4.0	2.0	25.0	22.3	2.7	2.0	1.8	0.2	0.00100	0.00012	14,640
Sequence 7	4.0	4.0	46.6	43.8	2.7	3.8	3.6	0.2	0.00220	0.00027	13,060
Sequence 8	4.0	6.0	67.8	65.0	2.8	5.5	5.3	0.2	0.00362	0.00045	11,789
Sequence 9	4.0	8.0	90.3	85.1	5.2	7.4	7.0	0.4	0.00527	0.00066	10,600
Sequence 10	4.0	10.0	112.6	104.8	7.7	9.2	8.6	0.6	0.00712	0.00089	9,667
Sequence 11	2.0	2.0	24.9	22.3	2.6	2.0	1.8	0.2	0.00116	0.00014	12,606
Sequence 12	2.0	4.0	46.2	43.5	2.7	3.8	3.6	0.2	0.00255	0.00032	11,219
Sequence 13	2.0	6.0	66.6	63.9	2.7	5.4	5.2	0.2	0.00416	0.00052	10,080
Sequence 14	2.0	8.0	87.8	83.5	4.3	7.2	6.8	0.4	0.00599	0.00075	9,159
Sequence 15	2.0	10.0	109.4	102.6	6.8	8.9	8.4	0.6	0.00800	0.00100	8,416

TESTED BY DEB **DATE** June 24, 2014
REVIEWED BY _____ **DATE** _____

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED / THINWALL TUBE SAMPLES**

Job No.	070265	Material Code	SSRVPS
Date Sampled:	06/24/14	Station No.:	LM10.7
Date Tested:	June 24, 2014	Location:	22'RT
Name of Project:	HWY. 51 I-30 (S)		
County:	Code: 10	Name:	CLARK
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20141936	AASHTO Class:	A-6(4)
Sample ID:	RV703	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

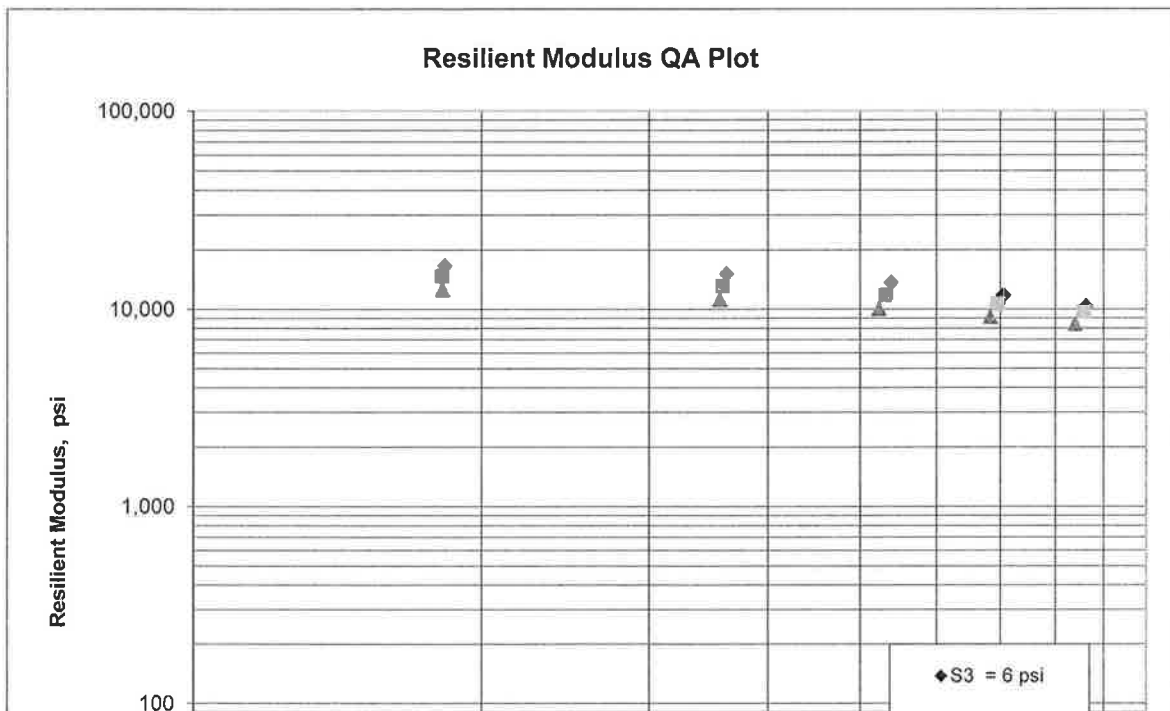
$$M_R = K_1 (S_C)^{K_2} (S_3)^{K_5}$$

$$K_1 = 12,901$$

$$K_2 = -0.27018$$

$$K_5 = 0.24338$$

$$R^2 = 0.95$$



**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No.	070265	Material Code	SSRVPS
Date Sampled:	06/24/14	Station No.:	LM12.5
Date Tested:	June 24, 2014	Location:	20'LT
Name of Project:	HWY. 51 I-30 (S)		
County:	Code: 10	Name: CLARK	
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20141937	AASHTO Class:	A-4(0)
Sample ID:	RV704	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

1. Testing Information:

Preconditioning - Permanent Strain > 5% (Y=Yes or N= No)	N
Testing - Permanent Strain > 5% (Y=Yes or N=No)	N
Number of Load Sequences Completed (0-15)	15

2. Specimen Information:

Specimen Diameter (in):	
Top	3.96
Middle	3.95
Bottom	3.95
Average	3.95
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.05
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.05
Initial Area, Ao (sq. in):	12.19
Initial Volume, AoLo (cu. in):	98.16

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3194.70
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4. Soil Properties:

Optimum Moisture Content (%):	11.7
Maximum Dry Density (pcf):	115.9
95% of MDD (pcf):	110.1
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3194.70
Compaction Moisture content (%):	12.0
Compaction Wet Density (pcf):	124.00
Compaction Dry Density (pcf):	110.72
Moisture Content After Mr Test (%):	11.7

6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable):

#VALUE!

7. Resilient Modulus, Mr:

9308(Sc)^-0.15627(S3)^0.37153

8. Comments

9. Tested By:

DEB/MW

Date: June 24, 2014

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No. 070265 **Material Code** SSRVPS
Date Sampled: 06/24/14 **Station No.:** LM12.5
Date Tested: June 24, 2014 **Location:** 20'LT
Name of Project: HWY. 51 I-30 (S)
County: Code: 10 **Name:** CLARK
Sampled By: FAULKNER **Depth:** 0-5
Lab No.: 20141937 **AASHTO Class:** A-4(0)
Sample ID: RV704 **Material Type (1 or 2):** 2
LATITUDE: **LONGITUDE:**

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied Max. Axial Load	Actual Applied Max. Axial Stress	Actual Applied Contact Load	Actual Applied Contact Load	Actual Applied Max. Axial Stress	Actual Applied Cyclic Stress	Actual Applied Contact Stress	Average Recov Def. LVDT 1 and 2	Resilient Strain	Resilient Modulus
DESIGNATION	S ₃	S _{cyclic}	P _{max}	P _{cyclic}	P _{contact}	S _{max}	S _{cyclic}	S _{contact}	H _{avg}	ε _r	M _r	
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi	
Sequence 1	6.0	2.0	25.2	22.7	2.6	2.1	1.9	0.2	0.00092	0.00011	16,230	
Sequence 2	6.0	4.0	47.6	45.0	2.6	3.9	3.7	0.2	0.00194	0.00024	15,331	
Sequence 3	6.0	6.0	70.1	66.6	3.5	5.8	5.5	0.3	0.00307	0.00038	14,325	
Sequence 4	6.0	8.0	94.0	87.9	6.0	7.7	7.2	0.5	0.00435	0.00054	13,357	
Sequence 5	6.0	10.0	118.2	109.8	8.5	9.7	9.0	0.7	0.00569	0.00071	12,729	
Sequence 6	4.0	2.0	25.1	22.5	2.6	2.1	1.8	0.2	0.00105	0.00013	14,126	
Sequence 7	4.0	4.0	46.9	44.2	2.7	3.8	3.6	0.2	0.00233	0.00029	12,543	
Sequence 8	4.0	6.0	68.5	65.8	2.8	5.6	5.4	0.2	0.00372	0.00046	11,681	
Sequence 9	4.0	8.0	92.4	87.1	5.2	7.6	7.1	0.4	0.00515	0.00064	11,176	
Sequence 10	4.0	10.0	116.1	108.4	7.7	9.5	8.9	0.6	0.00655	0.00081	10,934	
Sequence 11	2.0	2.0	24.8	22.0	2.7	2.0	1.8	0.2	0.00131	0.00016	11,109	
Sequence 12	2.0	4.0	45.9	43.1	2.8	3.8	3.5	0.2	0.00290	0.00036	9,823	
Sequence 13	2.0	6.0	66.6	63.8	2.9	5.5	5.2	0.2	0.00461	0.00057	9,133	
Sequence 14	2.0	8.0	89.0	84.7	4.3	7.3	6.9	0.4	0.00623	0.00077	8,971	
Sequence 15	2.0	10.0	112.8	105.9	7.0	9.3	8.7	0.6	0.00787	0.00098	8,881	

TESTED BY _____ **DATE** June 24, 2014
REVIEWED BY _____ **DATE** _____

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED / THINWALL TUBE SAMPLES**

Job No.	070265	Material Code	SSRVPS
Date Sampled:	06/24/14	Station No.:	LM12.5
Date Tested:	June 24, 2014	Location:	20'LT
Name of Project:	HWY. 51 I-30 (S)		
County:	Code: 10	Name:	CLARK
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20141937	AASHTO Class:	A-4(0)
Sample ID:	RV704	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

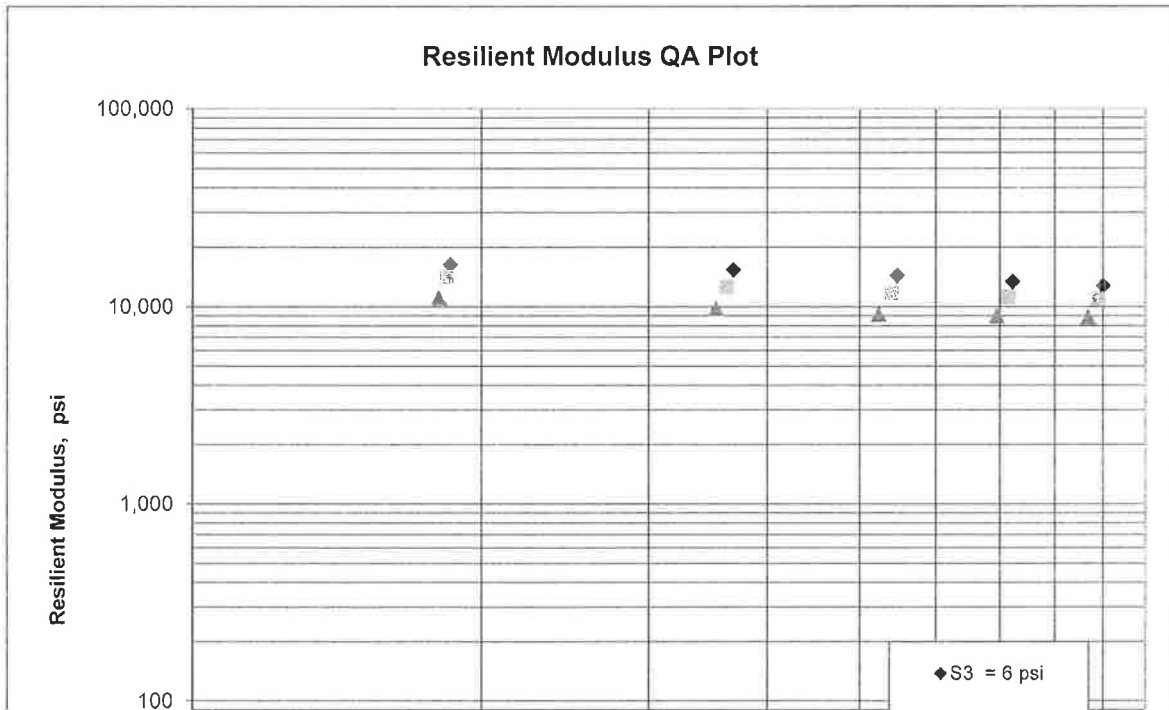
$$M_R = K_1 (S_C)^{K_2} (S_3)^{K_5}$$

$$K_1 = 9,308$$

$$K_2 = -0.15627$$

$$K_5 = 0.37153$$

$$R^2 = 0.99$$



**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No.	070265	Material Code	SSRVPS
Date Sampled:	06/25/14	Station No.:	LM13.7
Date Tested:	June 25, 2014	Location:	20'LT
Name of Project:	HWY.51 - I-30 (S)		
County:	Code: 10	Name: CLARK	
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20141938	AASHTO Class:	A-6(6)
Sample ID:	RV705	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

1. Testing Information:

Preconditioning - Permanent Strain > 5% (Y=Yes or N= No)	N
Testing - Permanent Strain > 5% (Y=Yes or N=No)	N
Number of Load Sequences Completed (0-15)	15

2. Specimen Information:

Specimen Diameter (in):	
Top	3.95
Middle	3.95
Bottom	3.95
Average	3.95
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.02
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.02
Initial Area, Ao (sq. in):	12.19
Initial Volume, AoLo (cu. in):	97.73

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3162.10
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4. Soil Properties:

Optimum Moisture Content (%):	15.5
Maximum Dry Density (pcf):	110
95% of MDD (pcf):	104.5
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3162.10
Compaction Moisture content (%):	16.0
Compaction Wet Density (pcf):	123.28
Compaction Dry Density (pcf):	106.28
Moisture Content After Mr Test (%):	16.0

6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable): #VALUE!

7. Resilient Modulus, Mr: 12418(Sc)^{-0.22588}(S3)^{0.23846}

8. Comments _____

9. Tested By: DEB **Date:** June 25, 2014

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No. 070265 Material Code SSRVPS
 Date Sampled: 06/25/14 Station No.: LM13.7
 Date Tested: June 25, 2014 Location: 20LT
 Name of Project: HWY.51 - I-50 (S)
 County: Code: 10 Name: CLARK
 Sampled By: FAULKNER Depth: 0-5
 Lab No.: 20141938 AASHTO Class: A-6(6)
 Sample ID: RV705 Material Type (1 or 2): 2
 LATITUDE: LONGITUDE:

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied Max. Axial Load	Actual Applied Cyclic Load	Actual Applied Contact Load	Actual Applied Max. Axial Stress	Actual Applied Cyclic Stress	Actual Applied Contact Stress	Average Recov Def. LVDT 1 and 2	Resilient Strain	Resilient Modulus
	S ₃ psi	S _{cyclic} psi	P _{max} lbs	P _{cyclic} lbs	P _{contact} lbs	S _{max} psi	S _{cyclic} psi	S _{contact} psi	H _{avg} in	ε _r in/in	M _r psi
Sequence 1	6.0	2.0	25.1	22.4	2.7	2.1	1.8	0.2	0.0092	0.00011	16,133
Sequence 2	6.0	4.0	47.2	44.4	2.8	3.9	3.6	0.2	0.00194	0.00024	15,042
Sequence 3	6.0	6.0	69.5	65.9	3.6	5.7	5.4	0.3	0.00312	0.00039	13,880
Sequence 4	6.0	8.0	92.4	86.3	6.1	7.6	7.1	0.5	0.00469	0.00058	12,119
Sequence 5	6.0	10.0	114.3	105.6	8.6	9.4	8.7	0.7	0.00635	0.00079	10,942
Sequence 6	4.0	2.0	24.9	22.2	2.7	2.0	1.8	0.2	0.00101	0.00013	14,522
Sequence 7	4.0	4.0	46.7	44.0	2.7	3.8	3.6	0.2	0.00219	0.00027	13,241
Sequence 8	4.0	6.0	67.8	65.1	2.7	5.6	5.3	0.2	0.00352	0.00044	12,161
Sequence 9	4.0	8.0	90.5	85.3	5.3	7.4	7.0	0.4	0.00506	0.00063	11,092
Sequence 10	4.0	10.0	113.0	105.2	7.7	9.3	8.6	0.6	0.00677	0.00084	10,229
Sequence 11	2.0	2.0	24.8	22.1	2.7	2.0	1.8	0.2	0.00117	0.00015	12,386
Sequence 12	2.0	4.0	46.3	43.6	2.7	3.8	3.6	0.2	0.00252	0.00031	11,370
Sequence 13	2.0	6.0	66.7	64.0	2.7	5.5	5.3	0.2	0.00407	0.00051	10,345
Sequence 14	2.0	8.0	88.3	83.9	4.4	7.2	6.9	0.4	0.00579	0.00072	9,544
Sequence 15	2.0	10.0	109.9	103.0	6.9	9.0	8.5	0.6	0.00767	0.00096	8,833

TESTED BY _____ DATE June 25, 2014
 REVIEWED BY _____ DATE _____

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED / THINWALL TUBE SAMPLES**

Job No.	070265	Material Code	SSRVPS
Date Sampled:	06/25/14	Station No.:	LM13.7
Date Tested:	June 25, 2014	Location:	20'LT
Name of Project:	HWY.51 - I-30 (S)		
County:	Code: 10	Name:	CLARK
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20141938	AASHTO Class:	A-6(6)
Sample ID:	RV705	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

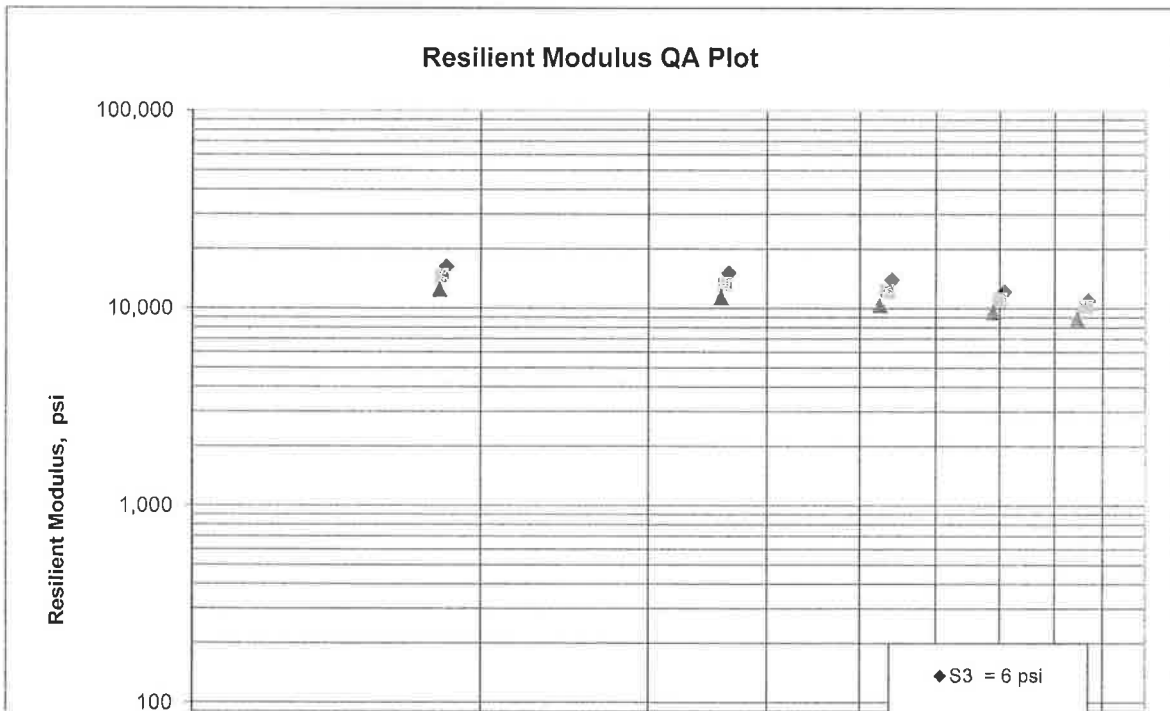
$$M_R = K_1 (S_C)^{K_2} (S_3)^{K_5}$$

$$K_1 = 12,418$$

$$K_2 = -0.22588$$

$$K_5 = 0.23846$$

$$R^2 = 0.95$$



**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No.:	070265	Material Code:	SSRVPS
Date Sampled:	06/25/14	Station No.:	LM14.9
Date Tested:	June 25, 2014	Location:	22'LT
Name of Project:	HWY.51 - I-30 (S)		
County:	Code: 10	Name: CLARK	
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20141939	AASHTO Class:	A-4(3)
Sample ID:	RV706	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

1. Testing Information:

Preconditioning - Permanent Strain > 5% (Y=Yes or N= No)	N
Testing - Permanent Strain > 5% (Y=Yes or N=No)	N
Number of Load Sequences Completed (0-15)	15

2. Specimen Information:

Specimen Diameter (in):	
Top	3.96
Middle	3.93
Bottom	3.93
Average	3.94
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.05
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.05
Initial Area, Ao (sq. in):	12.12
Initial Volume, AoLo (cu. in):	97.60

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3257.20
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4. Soil Properties:

Optimum Moisture Content (%):	14.0
Maximum Dry Density (pcf):	115.2
95% of MDD (pcf):	109.4
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3257.20
Compaction Moisture content (%):	14.1
Compaction Wet Density (pcf):	127.16
Compaction Dry Density (pcf):	111.45
Moisture Content After Mr Test (%):	14.1

6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable): #VALUE!

7. Resilient Modulus, Mr: 12567(S_c)^{-0.22438}(S₃)^{0.28520}

8. Comments

9. Tested By:

DEB _____

Date: June 25, 2014 _____

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No. 070265 **Material Code** SSRVPS
Date Sampled: 06/25/14 **Station No.:** LM14.9
Date Tested: June 25, 2014 **Location:** 22'LT
Name of Project: HWY.51 - I-30 (S)
County: Code: 10 **Name:** CLARK
Sampled By: FAULKNER **Depth:** 0-5
Lab No.: 20141939 **AASHTO Class:** A-4(3)
Sample ID: RV706 **Material Type (1 or 2):** 2
LATITUDE: **LONGITUDE:**

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied Max. Axial Load	Actual Applied Cyclic Load	Actual Applied Contact Load	Actual Applied Max. Axial Stress	Actual Applied Cyclic Stress	Actual Applied Contact Stress	Average Recov Def. LVDT 1 and 2	Resilient Strain	Resilient Modulus
	S ₃ psi	S _{cyclic} psi	P _{max} lbs	P _{cyclic} lbs	P _{contact} lbs	S _{max} psi	S _{cyclic} psi	S _{contact} psi	H _{avg} in	ε _r in/in	M _r psi
Sequence 1	6.0	2.0	24.9	22.3	2.6	2.1	1.8	0.2	0.0084	0.00010	17,555
Sequence 2	6.0	4.0	46.9	44.2	2.7	3.9	3.6	0.2	0.00176	0.00022	16,676
Sequence 3	6.0	6.0	69.1	65.6	3.5	5.7	5.4	0.3	0.00282	0.00035	15,416
Sequence 4	6.0	8.0	91.8	85.9	5.9	7.6	7.1	0.5	0.00424	0.00053	13,453
Sequence 5	6.0	10.0	114.1	105.8	8.4	9.4	8.7	0.7	0.00574	0.00071	12,244
Sequence 6	4.0	2.0	24.8	22.3	2.5	2.0	1.8	0.2	0.00095	0.00012	15,555
Sequence 7	4.0	4.0	46.5	43.9	2.6	3.8	3.6	0.2	0.00205	0.00025	14,248
Sequence 8	4.0	6.0	67.4	64.7	2.7	5.6	5.3	0.2	0.00330	0.00041	13,005
Sequence 9	4.0	8.0	89.9	84.8	5.1	7.4	7.0	0.4	0.00471	0.00059	11,951
Sequence 10	4.0	10.0	111.8	104.3	7.5	9.2	8.6	0.6	0.00627	0.00078	11,043
Sequence 11	2.0	2.0	24.6	21.9	2.7	2.0	1.8	0.2	0.00110	0.00014	13,292
Sequence 12	2.0	4.0	45.7	43.0	2.7	3.8	3.5	0.2	0.00240	0.00030	11,873
Sequence 13	2.0	6.0	66.0	63.2	2.8	5.4	5.2	0.2	0.00388	0.00048	10,810
Sequence 14	2.0	8.0	86.8	82.5	4.3	7.2	6.8	0.4	0.00549	0.00068	9,972
Sequence 15	2.0	10.0	108.8	102.0	6.7	9.0	8.4	0.6	0.00729	0.00091	9,299

TESTED BY DEB **DATE** June 25, 2014
REVIEWED BY _____ **DATE** _____

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED / THINWALL TUBE SAMPLES

Job No.	070265	Material Code	SSRVPS
Date Sampled:	06/25/14	Station No.:	LM14.9
Date Tested:	June 25, 2014	Location:	22'LT
Name of Project:	HWY.51 - I-30 (S)		
County:	Code: 10	Name:	CLARK
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20141939	AASHTO Class:	A-4(3)
Sample ID:	RV706	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

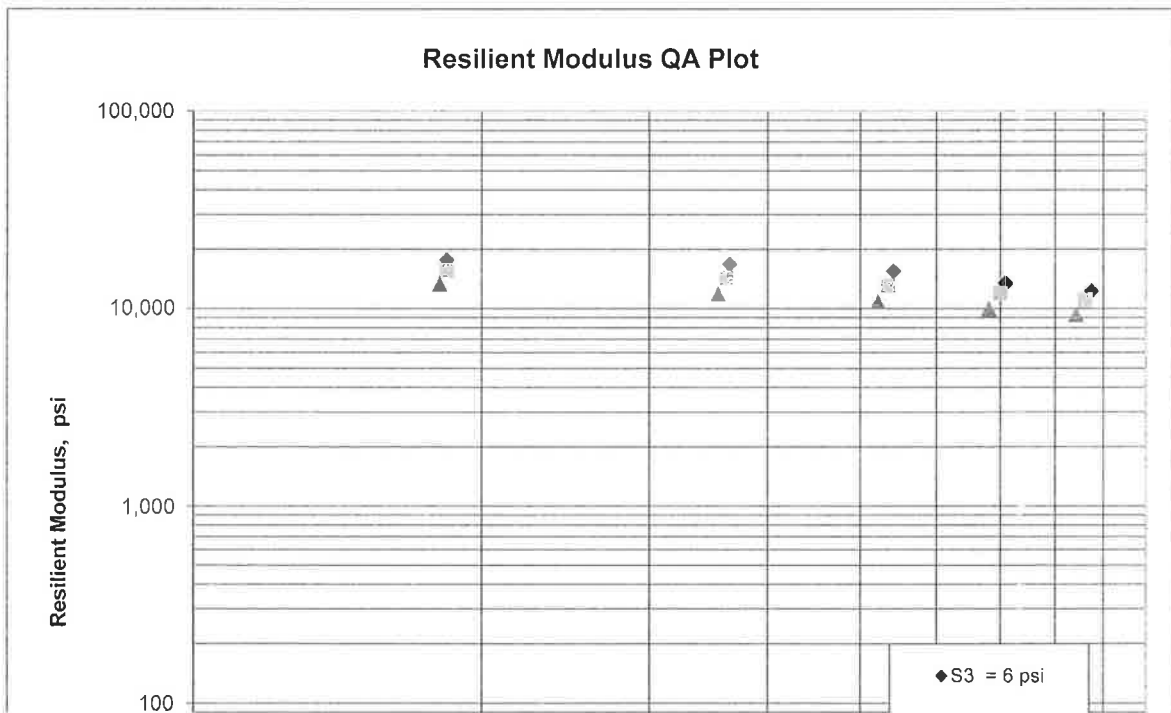
$$M_R = K_1 (S_c)^{K_2} (S_3)^{K_5}$$

$$K_1 = 12,567$$

$$K_2 = -0.22438$$

$$K_5 = 0.28520$$

$$R^2 = 0.96$$



**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No.	070265	Material Code	SSRVPS
Date Sampled:	06/25/14	Station No.:	LM16.1
Date Tested:	June 25, 2014	Location:	20'LT
Name of Project:	HWY.51 - I-30 (S)		
County:	Code: 10	Name: CLARK	
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20141940	AASHTO Class:	A-6(8)
Sample ID:	RV707	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

1. Testing Information:

Preconditioning - Permanent Strain > 5% (Y=Yes or N= No)	N
Testing - Permanent Strain > 5% (Y=Yes or N=No)	N
Number of Load Sequences Completed (0-15)	15

2. Specimen Information:

Specimen Diameter (in):	
Top	3.96
Middle	3.94
Bottom	3.96
Average	3.95
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.05
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.05
Initial Area, Ao (sq. in):	12.21
Initial Volume, AoLo (cu. in):	98.26

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3158.60
------------------------------	---------

4. Soil Properties:

Optimum Moisture Content (%):	15.5
Maximum Dry Density (pcf):	110.2
95% of MDD (pcf):	104.7
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3158.60
Compaction Moisture content (%):	16.3
Compaction Wet Density (pcf):	122.48
Compaction Dry Density (pcf):	105.31
Moisture Content After Mr Test (%):	15.9

6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable): #VALUE!

7. Resilient Modulus, Mr: 13885(Sc)^{-0.23815}(S3)^{0.17812}

8. Comments

9. Tested By:

DEB _____

Date: June 25, 2014 _____

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No. 070265 **Material Code** SSRVPS
Date Sampled: 06/25/14 **Station No.:** LM16.1
Date Tested: June 25, 2014 **Location:** 20'LT
Name of Project: HWY.51 - I-30 (S)
County: Code: 10 **Name:** CLARK
Sampled By: FAULKNER **Depth:** 0-5
Lab No.: 20141940 **AASHTO Class:** A-6(8)
Sample ID: RV707 **Material Type (1 or 2):** 2
LATITUDE: **LONGITUDE:**

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied Max. Axial Load	Actual Applied Cyclic Load	Actual Applied Contact Load	Actual Applied Max. Axial Stress	Actual Applied Cyclic Stress	Actual Applied Contact Stress	Average Recov Def. LVDT 1 and 2	Resilient Strain	Resilient Modulus
	S ₃ psi	S _{cyclic} psi	P _{max} lbs	P _{cyclic} lbs	P _{contact} lbs	S _{max} psi	S _{cyclic} psi	S _{contact} psi	H _{avg} in	ε _r in/in	M _r psi
Sequence 1	6.0	2.0	25.0	22.4	2.6	2.0	1.8	0.2	0.0092	0.00011	16,062
Sequence 2	6.0	4.0	46.9	44.3	2.6	3.8	3.6	0.2	0.00195	0.00024	15,018
Sequence 3	6.0	6.0	69.1	65.6	3.5	5.7	5.4	0.3	0.00315	0.00039	13,746
Sequence 4	6.0	8.0	91.6	85.6	6.0	7.5	7.0	0.5	0.00472	0.00059	11,957
Sequence 5	6.0	10.0	113.4	104.9	8.5	9.3	8.6	0.7	0.00650	0.00081	10,639
Sequence 6	4.0	2.0	24.9	22.2	2.7	2.0	1.8	0.2	0.00100	0.00012	14,621
Sequence 7	4.0	4.0	46.7	44.0	2.7	3.8	3.6	0.2	0.00214	0.00027	13,591
Sequence 8	4.0	6.0	67.6	64.8	2.8	5.5	5.3	0.2	0.00349	0.00043	12,243
Sequence 9	4.0	8.0	90.1	85.0	5.2	7.4	7.0	0.4	0.00502	0.00062	11,153
Sequence 10	4.0	10.0	112.1	104.3	7.8	9.2	8.5	0.6	0.00680	0.00085	10,110
Sequence 11	2.0	2.0	24.9	22.3	2.6	2.0	1.8	0.2	0.00111	0.00014	13,172
Sequence 12	2.0	4.0	46.4	43.5	2.8	3.8	3.6	0.2	0.00240	0.00030	11,984
Sequence 13	2.0	6.0	66.9	64.0	2.9	5.5	5.2	0.2	0.00386	0.00048	10,929
Sequence 14	2.0	8.0	88.4	84.0	4.4	7.2	6.9	0.4	0.00552	0.00069	10,036
Sequence 15	2.0	10.0	110.1	103.1	7.0	9.0	8.4	0.6	0.00737	0.00092	9,228

TESTED BY _____ DATE June 25, 2014
 REVIEWED BY _____ DATE _____

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED / THINWALL TUBE SAMPLES**

Job No.	070265	Material Code	SSRVPS
Date Sampled:	06/25/14	Station No.:	LM16.1
Date Tested:	June 25, 2014	Location:	20'LT
Name of Project:	HWY.51 - I-30 (S)		
County:	Code: 10	Name:	CLARK
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20141940	AASHTO Class:	A-6(8)
Sample ID:	RV707	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

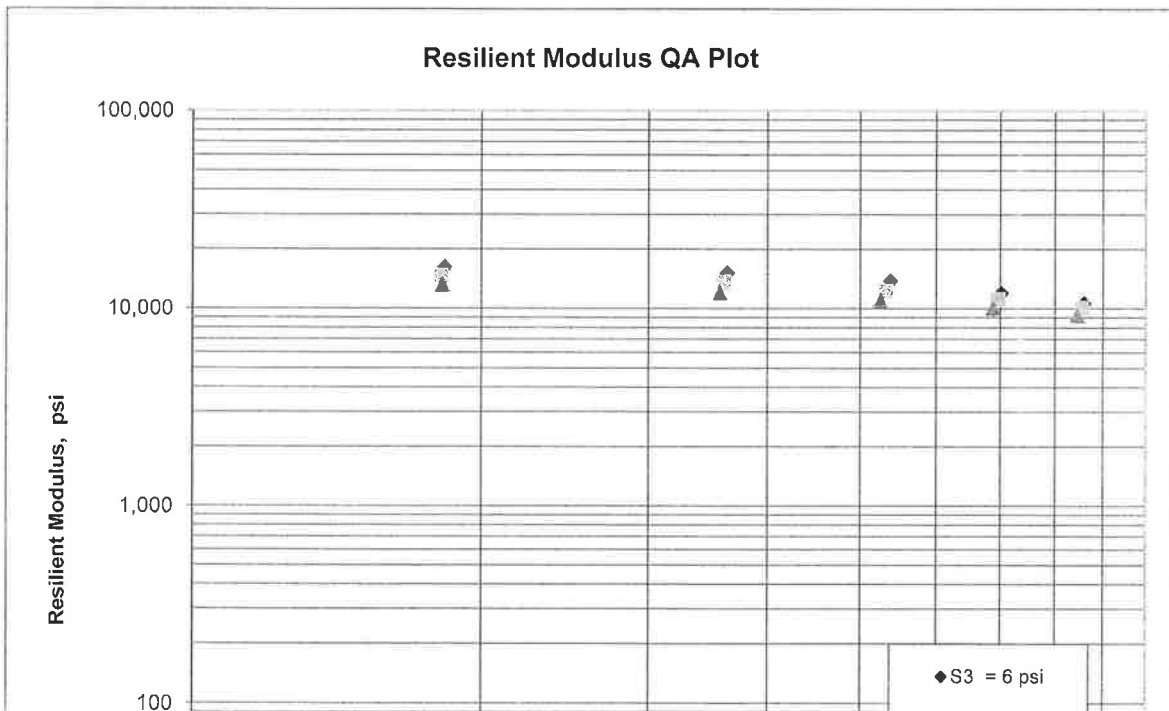
$$M_R = K_1 (S_C)^{K_2} (S_3)^{K_5}$$

$$K_1 = 13,885$$

$$K_2 = -0.23815$$

$$K_5 = 0.17812$$

$$R^2 = 0.93$$



JOB: 070265

*Arkansas State Highway Transportation Department
Materials Division*

DATE TESTED

JOB NAME: HWY.51 - I30 (S)

6/17/2014

COUNTY NO. 10

Michael Benson, Materials Engineer

STA.# LOC.

PAVEMENT SOUNDINGS

LM10.7	05RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		.25	3.0	5.0
LM10.7	22RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		--	--	--
LM10.9	05LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		.25	1.25	5.0
LM10.9	19LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		--	--	--
LM11.1	05RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		.25	2.75	5.0
LM11.1	20RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		--	--	--
LM11.3	04LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		.25	1.0	7.0
LM11.3	20LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		--	--	--
LM11.5	05RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		.25	1.75	5.0
LM11.5	20RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		--	--	--
LM11.7	05LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		.25	2.50	5.0
LM11.7	25LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		--	--	--
LM11.9	05RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		.25	1.75	5.0
LM11.9	20RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		--	--	--
LM12.1	05LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		.25	3.0	5.0
LM12.1	20LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		--	--	--
LM12.3	04RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		.25	2.50	5.0

comments: W=MULTIPLE LAYERS

Friday, June 27, 2014

PAVEMENT SOUNDINGS

STA.# LOC.

LM12.3	18RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		--	--	--	
LM12.5	05LT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE
		.25	2.25	--	5.0
LM12.5	20LT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE
		--	--	--	--
LM12.7	05RT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE
		.25	1.50	1.0	3.0
LM12.7	24RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		--	--	--	
LM12.9	05LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		.25	2.75	6.0	
LM12.9	20LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		--	--	--	
LM13.1	06RT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-5
		.25	2.75	1.0	5.0
LM13.1	22RT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-5
		--	--	--	--
LM13.3	05LT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-5
		.25	2.50	--	8.0
LM13.3	25LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		--	--	--	
LM13.5	05RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		.25	4.50	4.0	
LM13.5	21RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		--	--	--	
LM13.7	04LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		.25	2.50	8.0	
LM13.7	20LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		--	--	--	
LM13.9	05RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		.25	3.50	6.0	
LM13.9	27RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		--	--	--	
LM14.1	04LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		.25	2.50	6.0	
LM14.1	20LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5	
		--	--	--	

comments: W=MULTIPLE LAYERS

PAVEMENT SOUNDINGS

STA.# LOC.

LM14.3	04RT	CHIP SEAL .25	ACHMSC 4.0	AGG.BASE CRS CL-5 6.0
LM14.3	22RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
LM14.5	05LT	CHIP SEAL .25	ACHMSC 3.0	AGG.BASE CRS CL-5 5.0
LM14.5	22LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
LM14.7	04RT	CHIP SEAL .25	ACHMSC 3.0	AGG.BASE CRS CL-5 5.0
LM14.7	21RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
LM14.9	04LT	CHIP SEAL .25	ACHMSC 3.0	AGG.BASE CRS CL-5 7.0
LM14.9	22LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
LM15.1	05RT	CHIP SEAL .25	ACHMSC 2.75	AGG.BASE CRS CL-5 6.0
LM15.1	20RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
LM15.3	05LT	CHIP SEAL .25	ACHMSC 4.0	AGG.BASE CRS CL-5 5.0
LM15.3	22LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
LM15.5	06RT	CHIP SEAL .25	ACHMSC 2.50	AGG.BASE CRS CL-5 5.0
LM15.5	22RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
LM15.7	05LT	CHIP SEAL .25	ACHMSC 2.50	AGG.BASE CRS CL-5 6.0
LM15.7	20RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
LM15.9	05RT	CHIP SEAL .25	ACHMSC 2.50	AGG.BASE CRS CL-5 6.0
LM15.9	21RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
LM16.1	04LT	CHIP SEAL .25	ACHMSC 3.0	AGG.BASE CRS CL-5 5.0

comments: W=MULTIPLE LAYERS

PAVEMENT SOUNDINGS

STA.# LOC.

LM16.1	20LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		--	--	--
LM16.2	05RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-5
		--	6.0W	9.0

comments: W=MULTIPLE LAYERS

JOB: 070265

Arkansas State Highway Transportation Department

JOB NAME: HWY.51 - I30 (S)

Materials Division

COUNTY NO. 10 DATE TESTED 6/17/2014

Michael Benson, Materials Engineer

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
LM10.7	22RT	0-5	BR/GR	84	83	81	76	52	28	15	A-6(4)	RV703	
LM12.5	20LT	0-5	BROWN	92	89	88	84	70	ND	NP	A-4(0)	RV704	
LM13.7	20LT	0-5	BROWN	88	87	86	85	65	31	13	A-6(6)	RV705	
LM14.9	22LT	0-5	BROWN	84	83	81	80	66	24	08	A-4(3)	RV706	
LM16.1	20LT	0-5	BR/GR	75	74	74	73	59	35	18	A-6(8)	RV707	
LM10.7	05RT	0-5	GRAY	100	99	99	95	81	21	6	A-4(2)	S645	15.6
LM10.7	22RT	0-5	BR/GR	99	98	96	90	74	19	04	A-4(0)	S646	19.5
LM10.9	05LT	0-5	GRAY	99	99	98	95	76	22	07	A-4(3)	S647	19.8
LM10.9	19LT	0-5	BR/GR	100	99	99	96	74	20	04	A-4(0)	S648	21.8
LM11.1	05RT	0-5	BROWN	99	99	98	96	85	27	10	A-4(7)	S649	21.1
LM11.1	20RT	0-5	BROWN	100				92	29	11	A-6(9)	S650	20.8
LM11.3	04LT	0-5	GRAY	100	100	100	93	73	20	07	A-4(2)	S651	15.2
LM11.3	20LT	0-5	GRAY	99	98	98	92	70	18	04	A-4(0)	S652	18.9
LM11.5	05RT	0-5	BR/GR	99	97	96	91	64	22	07	A-4(2)	S653	14.6
LM11.5	20RT	0-5	BR/GR	99	99	97	91	53	21	06	A-4(0)	S654	15.5
LM11.7	05LT	0-5	BROWN		100	99	98	85	31	14	A-6(11)	S655	19
LM11.7	25LT	0-5	BROWN	100				91	38	20	A-6(18)	S656	23.1
LM11.9	05RT	0-5	GRAY	100	99	95	94	89	21	06	A-4(3)	S657	23.1
LM11.9	20RT	0-5	BROWN	99	98	97	96	87	22	06	A-4(3)	S658	24.6
LM12.1	05LT	0-5	GRAY	99	97	95	92	80	22	07	A-4(3)	S659	19.7
LM12.1	20LT	0-5	BROWN	96	93	90	86	74	24	09	A-4(4)	S660	24
LM12.3	04RT	0-5	BR/GR	100	99	97	92	60	21	07	A-4(1)	S661	19.6
LM12.3	18RT	0-5	BR/GR	99	98	98	93	60	22	07	A-4(1)	S662	22.4
LM12.5	05LT	0-5	BR/GR	99	98	97	90	55	21	05	A-4(0)	S663	19.3
LM12.5	20LT	0-5	BROWN	100	98	96	89	58	26	13	A-6(2)	S664	19.5
LM12.7	05RT	0-5	BR/GR	100	99	98	96	77	19	03	A-4(0)	S665	16.4

comments: W=MULTIPLE LAYERS

Friday, June 27, 2014

STA.#	LOC.	DEPTH	COLOR						L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				#4	#10	#40	#80	#200					
				S	I	E	V	E	S				
LM12.7	24RT	0-5	BROWN	99	99	98	96	80	20	03	A-4(0)	S666	22.6
LM12.9	05LT	0-5	GRAY	96	94	90	88	68	22	07	A-4(2)	S667	19
LM12.9	20LT	0-5	BROWN	99	98	98	96	80	21	06	A-4(2)	S668	21.7
LM13.1	06RT	0-5	BROWN	98	96	94	91	70	21	06	A-4(1)	S669	18.7
LM13.1	22RT	0-5	BROWN	99	99	98	94	76	23	08	A-4(3)	S670	18.1
LM13.3	05LT	0-5	BROWN	100	99	99	96	71	19	04	A-4(0)	S671	19
LM13.3	25LT	0-5	BROWN	100	99	99	94	69	20	06	A-4(1)	S672	19.1
LM13.5	05RT	0-5	BR/GR	98	97	95	92	65	18	02	A-4(0)	S673	14.3
LM13.5	21RT	0-5	BROWN	99	99	99	95	70	22	06	A-4(2)	S674	19.9
LM13.7	04LT	0-5	RD/BR	99	99	98	97	66	28	09	A-4(4)	S675	21.2
LM13.7	20LT	0-5	BROWN	99	99	99	98	89	31	11	A-6(9)	S676	21.1
LM13.9	05RT	0-5	BROWN	99	99	99	97	81	26	08	A-4(5)	S677	21.1
LM13.9	27RT	0-5	BROWN	99	98	97	95	84	34	17	A-6(13)	S678	20.4
LM14.1	04LT	0-5	GRAY	98	98	96	91	67	ND	NP	A-4(0)	S679	12.7
LM14.1	20LT	0-5	BR/GR	99	99	98	92	67	ND	NP	A-4(0)	S680	18.6
LM14.3	04RT	0-5	BR/GR	99	99	97	95	78	20	04	A-4(1)	S681	17.8
LM14.3	22RT	0-5	BROWN	99	99	98	96	80	21	05	A-4(1)	S682	21.7
LM14.5	05LT	0-5	BROWN	99	99	97	95	78	25	09	A-4(5)	S683	16.4
LM14.5	22LT	0-5	BROWN	99	99	99	97	81	21	06	A-4(2)	S684	20.3
LM14.7	04RT	0-5	BR/GR	96	96	94	89	66	ND	NP	A-4(0)	S685	16.5
LM14.7	21RT	0-5	GRAY	99	99	99	93	56	ND	NP	A-4(0)	S686	17.9
LM14.9	04LT	0-5	BROWN	100	99	99	96	83	28	11	A-6(7)	S687	18.4
LM14.9	22LT	0-5	BROWN	99	99	99	96	80	26	10	A-4(6)	S688	21.4
LM15.1	05RT	0-5	BROWN	99	99	99	94	71	23	07	A-4(2)	S689	16.6
LM15.1	20RT	0-5	BROWN	94	93	89	85	71	24	09	A-4(4)	S690	15
LM15.3	05LT	0-5	BR/GR	100	99	99	93	72	31	16	A-6(9)	S691	17.5
LM15.3	22LT	0-5	BROWN	99	99	98	93	70	27	12	A-6(6)	S692	19.7
LM15.5	06RT	0-5	BR/GR	99	99	96	91	71	26	12	A-6(6)	S693	19.8

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
LM15.5	22RT	0-5	BROWN	99	99	98	95	81	25	11	A-6(6)	S694	19.7
LM15.7	05LT	0-5	BR/GR	99	99	96	96	79	24	10	A-4(5)	S695	18.3
LM15.7	20RT	0-5	BROWN	100	99	99	93	86	28	12	A-6(9)	S696	23.2
LM15.9	05RT	0-5	BROWN	100	99	99	94	65	30	16	A-6(8)	S697	18.6
LM15.9	21RT	0-5	BROWN	99	98	98	92	66	28	14	A-6(6)	S698	22.8
LM16.1	04LT	0-5	BR/GR	100	99	99	93	66	34	18	A-6(14)	S699	20.6
LM16.1	20LT	0-5	BR/GR	99	98	97	93	85	38	19	A-6(16)	S700	20.3
LM16.2	05RT	0-5	BR/GR	99	98	96	73	46	26	11	A-6(1)	S701	18.7
LM16.2	25RT	0-5	BR/GR	100	99	98	92	62	23	09	A-4(3)	S702	21.8

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/18/14	SEQUENCE NO.	- 1
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20141878	- 20141879	- 20141880
SAMPLE ID	- S645	- S646	- S647
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM10.7	- LM10.7	- LM10.9
LOCATION	- 05RT	- 22RT	- 05LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- BR/GR	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 3 18.90	- 34 03 18.80	- 34 3 11.80
LONGITUDE DEG-MIN-SEC	- 93 14 36.70	- 93 14 36.80	- 93 14 28.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	-
	NO. 4 - 100	- 100	- 100
	NO. 10 - 99	- 99	- 99
	NO. 40 - 99	- 98	- 99
	NO. 80 - 95	- 96	- 98
	NO. 200 - 81	- 90	- 95
		- 74	- 76
LIQUID LIMIT	- 21	- 19	- 22
PLASTICITY INDEX	- 6	- 04	- 07
AASHTO SOIL	- A-4 (2)	- A-4 (0)	- A-4 (3)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.6	- 19.5	- 19.8
CHIP SEAL (IN)	- .25	- --	- .25
ACHMSC (IN)	- 3.0	- --	- 1.25
AGG.BASE CRS CL-5 (IN)	- 5.0	- --	- 5.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
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REMARKS - W=MULTIPLE LAYERS
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AASHTO TESTS : T24 T88 T89 T90 T265
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/18/14	SEQUENCE NO.	- 2
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT - HWY.51 - I30 (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY	- ARKANSAS	DATE SAMPLED	- 05/21/14
LOCATION	- CLARK, COUNTY	DATE RECEIVED	- 05/23/14
SAMPLED BY	- S.FAULKNER	DATE TESTED	- 06/17/14
SAMPLE FROM	- TEST HOLE		
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	-	20141881	-	20141882	-	20141883
SAMPLE ID	-	S648	-	S649	-	S650
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	LM10.9	-	LM11.1	-	LM11.1
LOCATION	-	19LT	-	05RT	-	20RT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	BR/GR	-	BROWN	-	BROWN
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	34 3 11.90	-	34 03 10.00	-	34 3 9.90
LONGITUDE DEG-MIN-SEC	-	93 14 28.70	-	93 14 16.90	-	93 14 16.90
% PASSING						
	2	IN.	-		-	
	1 1/2	IN.	-		-	
	3/4	IN.	-		-	
	3/8	IN.	-	100	-	
	NO. 4	-	100	99	-	100
	NO. 10	-	99	99	-	
	NO. 40	-	99	98	-	
	NO. 80	-	96	96	-	
	NO. 200	-	74	85	-	92
LIQUID LIMIT	-	20	-	27	-	29
PLASTICITY INDEX	-	04	-	10	-	11
AASHTO SOIL	-	A-4 (0)	-	A-4 (7)	-	A-6 (9)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	21.8	-	21.1	-	20.8
CHIP SEAL	(IN)	--	-	.25	-	--
ACHMSC	(IN)	--	-	2.75	-	--
AGG.BASE CRS CL-5	(IN)	--	-	5.0	-	--
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
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REMARKS - W=MULTIPLE LAYERS

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 06/18/14	SEQUENCE NO. - 3
JOB NUMBER - 070265	MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED	SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE	SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK	COUNTY/STATE - 10
SUPPLIER NAME - STATE	DISTRICT NO. - 07
NAME OF PROJECT - HWY.51 - I30 (S)	
PROJECT ENGINEER - NOT APPLICABLE	
PIT/QUARRY - ARKANSAS	
LOCATION - CLARK, COUNTY	DATE SAMPLED - 05/21/14
SAMPLED BY - S.FAULKNER	DATE RECEIVED - 05/23/14
SAMPLE FROM - TEST HOLE	DATE TESTED - 06/17/14
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS	

LAB NUMBER	- 20141884	- 20141885	- 20141886
SAMPLE ID	- S651	- S652	- S653
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM11.3	- LM11.3	- LM11.5
LOCATION	- 04LT	- 20LT	- 05RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- GRAY	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 3 8.20	- 34 03 8.30	- 34 2 56.80
LONGITUDE DEG-MIN-SEC	- 93 14 4.20	- 93 14 4.00	- 93 13 55.60
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	100	100
	NO. 4 - 100	99	99
	NO. 10 - 100	98	97
	NO. 40 - 100	98	96
	NO. 80 - 93	92	91
	NO. 200 - 73	70	64
LIQUID LIMIT	- 20	- 18	- 22
PLASTICITY INDEX	- 07	- 04	- 07
AASHTO SOIL	- A-4 (2)	- A-4 (0)	- A-4 (2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.2	- 18.9	- 14.6
CHIP SEAL (IN)	- .25	- --	- .25
ACHMSC (IN)	- 1.0	- --	- 1.75
AGG.BASE CRS CL-5 (IN)	- 7.0	- --	- 5.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS
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AASHTO TESTS : T24 T88 T89 T90 T265
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 06/18/14 SEQUENCE NO. - 4
JOB NUMBER - 070265 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 10
SUPPLIER NAME - STATE DISTRICT NO. - 07
NAME OF PROJECT - HWY.51 - I30 (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - CLARK, COUNTY DATE SAMPLED - 05/21/14
SAMPLED BY - S.FAULKNER DATE RECEIVED - 05/23/14
SAMPLE FROM - TEST HOLE DATE TESTED - 06/17/14
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20141887	-	20141888	-	20141889
SAMPLE ID	-	S654	-	S655	-	S656
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	LM11.5	-	LM11.7	-	LM11.7
LOCATION	-	20RT	-	05LT	-	25LT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	BR/GR	-	BROWN	-	BROWN
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	34 2 56.70	-	34 02 48.30	-	34 2 48.40
LONGITUDE DEG-MIN-SEC	-	93 13 55.70	-	93 13 47.40	-	93 13 47.20
% PASSING	2	IN. -	-	-	-	-
	1 1/2	IN. -	-	-	-	-
	3/4	IN. -	-	-	-	-
	3/8	IN. -	100	-	-	-
	NO. 4	-	99	-	-	100
	NO. 10	-	99	100	-	-
	NO. 40	-	97	99	-	-
	NO. 80	-	91	98	-	-
	NO. 200	-	53	85	-	91
LIQUID LIMIT	-	21	-	31	-	38
PLASTICITY INDEX	-	06	-	14	-	20
AASHTO SOIL	-	A-4(0)	-	A-6(11)	-	A-6(18)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	15.5	-	19.0	-	23.1
CHIP SEAL (IN)	-	--	-	.25	-	--
ACHMSC (IN)	-	--	-	2.50	-	--
AGG.BASE CRS CL-5 (IN)	-	--	-	5.0	-	--
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
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	-		-		-	
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REMARKS - W=MULTIPLE LAYERS

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AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/18/14	SEQUENCE NO.	- 5
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20141890	- 20141891	- 20141892
SAMPLE ID	- S657	- S658	- S659
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM11.9	- LM11.9	- LM12.1
LOCATION	- 05RT	- 20RT	- 05LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- BROWN	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 2 40.90	- 34 02 40.80	- 34 2 34.90
LONGITUDE DEG-MIN-SEC	- 93 13 39.00	- 93 13 39.10	- 93 13 29.00
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	-	100	100
NO. 4	- 100	- 99	- 99
NO. 10	- 99	- 98	- 97
NO. 40	- 95	- 97	- 95
NO. 80	- 94	- 96	- 92
NO. 200	- 89	- 87	- 80
LIQUID LIMIT	- 21	- 22	- 22
PLASTICITY INDEX	- 06	- 06	- 07
AASHTO SOIL	- A-4 (3)	- A-4 (3)	- A-4 (3)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 23.1	- 24.6	- 19.7
CHIP SEAL (IN)	- .25	- --	- .25
ACHMSC (IN)	- 1.75	- --	- 3.0
AGG.BASE CRS CL-5 (IN)	- 5.0	- --	- 5.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/17/14	SEQUENCE NO.	- 6
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT - HWY.51 - I30 (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY - ARKANSAS			
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20141893	- 20141894	- 20141895
SAMPLE ID	- S660	- S661	- S662
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM12.1	- LM12.3	- LM12.3
LOCATION	- 20LT	- 04RT	- 18RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 2 35.00	- 34 02 26.40	- 34 2 26.40
LONGITUDE DEG-MIN-SEC	- 93 13 28.90	- 93 13 21.10	- 93 13 21.20
% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	-	-
	3/8 IN.	- 100	- 100
	NO. 4	- 96	- 99
	NO. 10	- 93	- 98
	NO. 40	- 90	- 98
	NO. 80	- 86	- 93
	NO. 200	- 74	- 60
LIQUID LIMIT	- 24	- 21	- 22
PLASTICITY INDEX	- 09	- 07	- 07
AASHTO SOIL	- A-4 (4)	- A-4 (1)	- A-4 (1)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 24.0	- 19.6	- 22.4
CHIP SEAL	(IN) - --	- .25	- --
ACHMSC	(IN) - --	- 2.50	- --
AGG.BASE CRS CL-5	(IN) - --	- 5.0	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS
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 AASHTO TESTS : T24 T88 T89 T90 T265
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/18/14	SEQUENCE NO.	- 7
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20141896	- 20141897	- 20141898
SAMPLE ID	- S663	- S664	- S665
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM12.5	- LM12.5	- LM12.7
LOCATION	- 05LT	- 20LT	- 05RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BROWN	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 2 16.70	- 34 02 16.70	- 34 2 5.70
LONGITUDE DEG-MIN-SEC	- 93 13 18.80	- 93 13 18.60	- 93 13 18.60
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	-	-
	NO. 4 - 99	- 100	- 100
	NO. 10 - 98	- 98	- 99
	NO. 40 - 97	- 96	- 98
	NO. 80 - 90	- 89	- 96
	NO. 200 - 55	- 58	- 77
LIQUID LIMIT	- 21	- 26	- 19
PLASTICITY INDEX	- 05	- 13	- 03
AASHTO SOIL	- A-4(0)	- A-6(2)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 19.3	- 19.5	- 16.4
CHIP SEAL (IN)	- .25	- --	- .25
ACHMSC (IN)	- 2.25	- --	- 1.50
ACHMBC (IN)	- --	- --	- 1.0
AGG.BASE (IN)	- 5.0	- --	- 3.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS
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AASHTO TESTS : T24 T88 T89 T90 T265
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/17/14	SEQUENCE NO.	- 8
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20141899	- 20141900	- 20141901
SAMPLE ID	- S666	- S667	- S668
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM12.7	- LM12.9	- LM12.9
LOCATION	- 24RT	- 05LT	- 20LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- GRAY	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 2 5.70	- 34 01 56.70	- 34 1 56.70
LONGITUDE DEG-MIN-SEC	- 93 13 18.80	- 93 13 15.30	- 93 13 15.10
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	- 100	-
	3/4 IN. -	- 98	-
	3/8 IN. - 100	- 98	- 100
	NO. 4 - 99	- 96	- 99
	NO. 10 - 99	- 94	- 98
	NO. 40 - 98	- 90	- 98
	NO. 80 - 96	- 88	- 96
	NO. 200 - 80	- 68	- 80
LIQUID LIMIT	- 20	- 22	- 21
PLASTICITY INDEX	- 03	- 07	- 06
AASHTO SOIL	- A-4 (0)	- A-4 (2)	- A-4 (2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 22.6	- 19.0	- 21.7
CHIP SEAL (IN)	- --	- .25	- --
ACHMSC (IN)	- --	- 2.75	- --
AGG.BASE CRS CL-5 (IN)	- --	- 6.0	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/18/14	SEQUENCE NO.	- 9
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20141902	- 20141903	- 20141904
SAMPLE ID	- S669	- S670	- S671
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM13.1	- LM13.1	- LM13.3
LOCATION	- 06RT	- 22RT	- 05LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 1 46.80	- 34 01 46.70	- 34 1 39.90
LONGITUDE DEG-MIN-SEC	- 93 13 9.80	- 93 13 9.90	- 93 13 .90
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	-
	3/8 IN. - 99	- 100	-
	NO. 4 - 98	- 99	- 100
	NO. 10 - 96	- 99	- 99
	NO. 40 - 94	- 98	- 99
	NO. 80 - 91	- 94	- 96
	NO. 200 - 70	- 76	- 71
LIQUID LIMIT	- 21	- 23	- 19
PLASTICITY INDEX	- 06	- 08	- 04
AASHTO SOIL	- A-4(1)	- A-4(3)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.7	- 18.1	- 19.0
CHIP SEAL (IN)	- .25	- --	- .25
ACHMSC (IN)	- 2.75	- --	- 2.50
ACHMBC (IN)	- 1.0	- --	- --
AGG.BASE CRS CL-5 (IN)	- 5.0	- --	- 8.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS
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AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/18/14	SEQUENCE NO.	- 10
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20141905	- 20141906	- 20141907
SAMPLE ID	- S672	- S673	- S674
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM13.3	- LM13.5	- LM13.5
LOCATION	- 25LT	- 05RT	- 21RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 1 40.10	- 34 01 33.60	- 34 1 33.50
LONGITUDE DEG-MIN-SEC	- 93 13 .70	- 93 12 51.20	- 93 12 51.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	- 100	-
	3/8 IN. -	- 99	- 100
	NO. 4 - 100	- 98	- 99
	NO. 10 - 99	- 97	- 99
	NO. 40 - 99	- 95	- 99
	NO. 80 - 94	- 92	- 95
	NO. 200 - 69	- 65	- 70
LIQUID LIMIT	- 20	- 18	- 22
PLASTICITY INDEX	- 06	- 02	- 06
AASHTO SOIL	- A-4(1)	- A-4(0)	- A-4(2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 19.1	- 14.3	- 19.9
CHIP SEAL (IN)	- --	- .25	- --
ACHMSC (IN)	- --	- 4.50	- --
AGG.BASE CRS CL-5 (IN)	- --	- 4.0	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 06/18/14 SEQUENCE NO. - 11
JOB NUMBER - 070265 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 10
SUPPLIER NAME - STATE DISTRICT NO. - 07
NAME OF PROJECT - HWY.51 - I30 (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - CLARK, COUNTY DATE SAMPLED - 05/21/14
SAMPLED BY - S.FAULKNER DATE RECEIVED - 05/23/14
SAMPLE FROM - TEST HOLE DATE TESTED - 06/17/14
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20141908	-	20141909	-	20141910
SAMPLE ID	-	S675	-	S676	-	S677
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	LM13.7	-	LM13.7	-	LM13.9
LOCATION	-	04LT	-	20LT	-	05RT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	RD/BR	-	BROWN	-	BROWN
MAT'L TYPE	-	-	-	-	-	-
LATITUDE DEG-MIN-SEC	-	34 1 27.60	-	34 01 27.60	-	34 1 21.80
LONGITUDE DEG-MIN-SEC	-	93 12 40.80	-	93 12 40.70	-	93 12 30.00
% PASSING	2	IN. -	-	-	-	-
	1 1/2	IN. -	-	-	-	-
	3/4	IN. -	-	-	-	100
	3/8	IN. -	100	100	-	99
	NO. 4	-	99	99	-	99
	NO. 10	-	99	99	-	99
	NO. 40	-	98	99	-	99
	NO. 80	-	97	98	-	97
	NO. 200	-	66	89	-	81
LIQUID LIMIT	-	28	-	31	-	26
PLASTICITY INDEX	-	09	-	11	-	08
AASHTO SOIL	-	A-4(4)	-	A-6(9)	-	A-4(5)
UNIFIED SOIL	-	-	-	-	-	-
% MOISTURE CONTENT	-	21.2	-	21.1	-	21.1
CHIP SEAL (IN)	-	.25	-	--	-	.25
ACHMSC (IN)	-	2.50	-	--	-	3.50
AGG.BASE CRS CL-5 (IN)	-	8.0	-	--	-	6.0
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

REMARKS - W=MULTIPLE LAYERS

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AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/17/14	SEQUENCE NO.	- 12
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20141911	- 20141912	- 20141913
SAMPLE ID	- S678	- S679	- S680
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM13.9	- LM14.1	- LM14.1
LOCATION	- 27RT	- 04LT	- 20LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- GRAY	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 1 21.60	- 34 01 18.30	- 34 1 18.50
LONGITUDE DEG-MIN-SEC	- 93 12 30.10	- 93 12 18.40	- 93 12 18.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	-
	3/8 IN. - 99	- 100	- 100
	NO. 4 - 99	- 98	- 99
	NO. 10 - 98	- 98	- 99
	NO. 40 - 97	- 96	- 98
	NO. 80 - 95	- 91	- 92
	NO. 200 - 84	- 67	- 67
LIQUID LIMIT	- 34	- ND	- ND
PLASTICITY INDEX	- 17	- NP	- NP
AASHTO SOIL	- A-6 (13)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 20.4	- 12.7	- 18.6
CHIP SEAL (IN)	- --	- .25	- --
ACHMSC (IN)	- --	- 2.50	- --
AGG.BASE CRS CL-5 (IN)	- --	- 6.0	- --
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 06/18/14	SEQUENCE NO. - 13
JOB NUMBER - 070265	MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED	SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE	SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK	COUNTY/STATE - 10
SUPPLIER NAME - STATE	DISTRICT NO. - 07
NAME OF PROJECT - HWY.51 - I30 (S)	
PROJECT ENGINEER - NOT APPLICABLE	
PIT/QUARRY - ARKANSAS	
LOCATION - CLARK, COUNTY	DATE SAMPLED - 05/21/14
SAMPLED BY - S.FAULKNER	DATE RECEIVED - 05/23/14
SAMPLE FROM - TEST HOLE	DATE TESTED - 06/17/14
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS	

LAB NUMBER	-	20141914	-	20141915	-	20141916
SAMPLE ID	-	S681	-	S682	-	S683
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	LM14.3	-	LM14.3	-	LM14.5
LOCATION	-	04RT	-	22RT	-	05LT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	BR/GR	-	BROWN	-	BROWN
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	34 1 12.40	-	34 01 12.20	-	34 1 6.70
LONGITUDE DEG-MIN-SEC	-	93 12 8.40	-	93 12 8.60	-	93 11 57.80
% PASSING						
	2	IN.	-		-	
	1 1/2	IN.	-		-	
	3/4	IN.	-		-	
	3/8	IN.	-	100	-	100
	NO. 4	-		99	-	99
	NO. 10	-		99	-	99
	NO. 40	-		98	-	97
	NO. 80	-		96	-	95
	NO. 200	-		80	-	78
LIQUID LIMIT	-	20	-	21	-	25
PLASTICITY INDEX	-	04	-	05	-	09
AASHTO SOIL	-	A-4 (1)	-	A-4 (1)	-	A-4 (5)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	17.8	-	21.7	-	16.4
CHIP SEAL	(IN)	-		.25	-	.25
ACHMSC	(IN)	-		4.0	-	3.0
AGG.BASE CRS CL-5	(IN)	-		6.0	-	5.0
		-			-	
		-			-	
		-			-	
		-			-	
		-			-	
		-			-	
		-			-	

REMARKS - W=MULTIPLE LAYERS
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AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/18/14	SEQUENCE NO.	- 14
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20141917	- 20141918	- 20141919
SAMPLE ID	- S684	- S685	- S686
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM14.5	- LM14.7	- LM14.7
LOCATION	- 22LT	- 04RT	- 21RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 1 6.90	- 34 00 59.70	- 34 59.60
LONGITUDE DEG-MIN-SEC	- 93 11 57.70	- 93 11 48.10	- 93 11 48.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	100	-
	3/8 IN. - 100	98	100
	NO. 4 - 99	96	99
	NO. 10 - 99	96	99
	NO. 40 - 99	94	99
	NO. 80 - 97	89	93
	NO. 200 - 81	66	56
LIQUID LIMIT	- 21	- ND	- ND
PLASTICITY INDEX	- 06	- NP	- NP
AASHTO SOIL	- A-4 (2)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 20.3	- 16.5	- 17.9
CHIP SEAL (IN)	- --	- .25	- --
ACHMSC (IN)	- --	- 3.0	- --
AGG.BASE CRS CL-5 (IN)	- --	- 5.0	- --
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS

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AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/18/14	SEQUENCE NO.	- 15
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20141920	- 20141921	- 20141922
SAMPLE ID	- S687	- S688	- S689
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM14.9	- LM14.9	- LM15.1
LOCATION	- 04LT	- 22LT	- 05RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 50.60	- 34 00 50.60	- 34 41.70
LONGITUDE DEG-MIN-SEC	- 93 11 41.70	- 93 11 41.60	- 93 11 39.50
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	-	-	-
NO. 4	- 100	- 100	- 100
NO. 10	- 99	- 99	- 99
NO. 40	- 99	- 99	- 99
NO. 80	- 96	- 96	- 94
NO. 200	- 83	- 80	- 71
LIQUID LIMIT	- 28	- 26	- 23
PLASTICITY INDEX	- 11	- 10	- 07
AASHTO SOIL	- A-6(7)	- A-4(6)	- A-4(2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.4	- 21.4	- 16.6
CHIP SEAL (IN)	- .25	- --	- .25
ACHMSC (IN)	- 3.0	- --	- 2.75
AGG.BASE CRS CL-5 (IN)	- 7.0	- --	- 6.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/18/14	SEQUENCE NO.	- 16
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20141923	- 20141924	- 20141925
SAMPLE ID	- S690	- S691	- S692
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM15.1	- LM15.3	- LM15.3
LOCATION	- 20RT	- 05LT	- 22LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 41.70	- 34 00 35.90	- 34 35.90
LONGITUDE DEG-MIN-SEC	- 93 11 39.70	- 93 11 39.00	- 93 11 38.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. - 100	-	-
	3/4 IN. - 95	-	-
	3/8 IN. - 94	-	- 100
	NO. 4 - 94	- 100	- 99
	NO. 10 - 93	- 99	- 99
	NO. 40 - 89	- 99	- 98
	NO. 80 - 85	- 93	- 93
	NO. 200 - 71	- 72	- 70
LIQUID LIMIT	- 24	- 31	- 27
PLASTICITY INDEX	- 09	- 16	- 12
AASHTO SOIL	- A-4(4)	- A-6(9)	- A-6(6)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.0	- 17.5	- 19.7
CHIP SEAL (IN)	- --	- .25	- --
ACHMSC (IN)	- --	- 4.0	- --
AGG.BASE CRS CL-5 (IN)	- --	- 5.0	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS

AASHTO TESTS : T24 T88 T89 T90 T265
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/18/14	SEQUENCE NO.	- 17
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20141926	- 20141927	- 20141928
SAMPLE ID	- S693	- S694	- S695
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM15.5	- LM15.5	- LM15.7
LOCATION	- 06RT	- 22RT	- 05LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BROWN	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 26.70	- 34 00 26.60	- 34 21.00
LONGITUDE DEG-MIN-SEC	- 93 11 33.30	- 93 11 33.40	- 93 11 23.70
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	- 100	- 100	- 100
NO. 4	- 99	- 99	- 99
NO. 10	- 99	- 99	- 99
NO. 40	- 96	- 98	- 96
NO. 80	- 91	- 95	- 93
NO. 200	- 71	- 81	- 79
LIQUID LIMIT	- 26	- 25	- 24
PLASTICITY INDEX	- 12	- 11	- 10
AASHTO SOIL	- A-6(6)	- A-6(6)	- A-4(5)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 19.8	- 19.7	- 18.3
CHIP SEAL (IN)	- .25	- --	- .25
ACHMSC (IN)	- 2.50	- --	- 2.50
AGG.BASE CRS CL-5 (IN)	- 5.0	- --	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/17/14	SEQUENCE NO.	- 18
JOB NUMBER	- 070265	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20141929	- 20141930	- 20141931
SAMPLE ID	- S696	- S697	- S698
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM15.7	- LM15.9	- LM15.9
LOCATION	- 20RT	- 05RT	- 21RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 21.20	- 34 00 12.30	- 34 12.20
LONGITUDE DEG-MIN-SEC	- 93 11 23.50	- 93 11 15.50	- 93 11 15.70
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	- 100
	NO. 4 - 100	- 100	- 99
	NO. 10 - 99	- 99	- 98
	NO. 40 - 99	- 99	- 98
	NO. 80 - 98	- 94	- 92
	NO. 200 - 86	- 65	- 66
LIQUID LIMIT	- 28	- 30	- 28
PLASTICITY INDEX	- 12	- 16	- 14
AASHTO SOIL	- A-6(9)	- A-6(8)	- A-6(6)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 23.2	- 18.6	- 22.8
CHIP SEAL (IN)	- --	- .25	- --
ACHMSC (IN)	- --	- 2.50	- --
AGG.BASE CRS CL-5 (IN)	- --	- 6.0	- --
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 06/17/14	SEQUENCE NO. - 19
JOB NUMBER - 070265	MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED	SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE	SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK	COUNTY/STATE - 10
SUPPLIER NAME - STATE	DISTRICT NO. - 07
NAME OF PROJECT - HWY.51 - I30 (S)	
PROJECT ENGINEER - NOT APPLICABLE	
PIT/QUARRY - ARKANSAS	
LOCATION - CLARK, COUNTY	DATE SAMPLED - 05/21/14
SAMPLED BY - S.FAULKNER	DATE RECEIVED - 05/23/14
SAMPLE FROM - TEST HOLE	DATE TESTED - 06/17/14
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS	

LAB NUMBER	-	20141932	-	20141933	-	20141934
SAMPLE ID	-	S699	-	S700	-	S701
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	LM16.1	-	LM16.1	-	LM16.2
LOCATION	-	04LT	-	20LT	-	05RT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	BR/GR	-	BR/GR	-	BR/GR
MAT'L TYPE	-	-	-	-	-	-
LATITUDE DEG-MIN-SEC	-	34 3.90	-	34 00 4.00	-	33 59 57.90
LONGITUDE DEG-MIN-SEC	-	93 11 9.00	-	93 11 8.90	-	93 11 5.90
% PASSING						
	2	IN. -		-		-
	1 1/2	IN. -		-		-
	3/4	IN. -		-		-
	3/8	IN. -		100		100
	NO. 4	- 100		99		99
	NO. 10	- 99		98		98
	NO. 40	- 99		97		96
	NO. 80	- 98		96		73
	NO. 200	- 83		85		43
LIQUID LIMIT	-	34	-	38	-	26
PLASTICITY INDEX	-	18	-	19	-	11
AASHTO SOIL	-	A-6(14)	-	A-6(16)	-	A-6(1)
UNIFIED SOIL	-	-	-	-	-	-
% MOISTURE CONTENT	-	20.6	-	20.3	-	18.7
CHIP SEAL	(IN) -	.25	-	--	-	--
ACHMSC	(IN) -	3.0	-	--	-	6.0W
AGG.BASE CRS CL-5	(IN) -	5.0	-	--	-	9.0
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

REMARKS - W=MULTIPLE LAYERS
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 06/17/14 SEQUENCE NO. - 20
 JOB NUMBER - 070265 MATERIAL CODE - SSRVPS
 FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014
 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 10
 SUPPLIER NAME - STATE DISTRICT NO. - 07
 NAME OF PROJECT - HWY.51 - I30 (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - CLARK, COUNTY DATE SAMPLED - 05/21/14
 SAMPLED BY - S.FAULKNER DATE RECEIVED - 05/23/14
 SAMPLE FROM - TEST HOLE DATE TESTED - 06/17/14
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20141935	-	-
SAMPLE ID	-	S702	-	-
TEST STATUS	-	INFORMATION ONLY	-	-
STATION	-	LM16.2	-	-
LOCATION	-	25RT	-	-
DEPTH IN FEET	-	0-5	-	-
MAT'L COLOR	-	BR/GR	-	-
MAT'L TYPE	-		-	-
LATITUDE DEG-MIN-SEC	-	33 59 57.80	-	-
LONGITUDE DEG-MIN-SEC	-	93 11 6.10	-	-
% PASSING	2	IN.	-	-
	1 1/2	IN.	-	-
	3/4	IN.	-	-
	3/8	IN.	-	-
	NO. 4	- 100	-	-
	NO. 10	- 99	-	-
	NO. 40	- 98	-	-
	NO. 80	- 92	-	-
	NO. 200	- 62	-	-
LIQUID LIMIT	-	23	-	-
PLASTICITY INDEX	-	09	-	-
AASHTO SOIL	-	A-4(3)	-	-
UNIFIED SOIL	-		-	-
% MOISTURE CONTENT	-	21.8	-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-

REMARKS - W=MULTIPLE LAYERS

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/18/14		SEQUENCE NO.	- 1
JOB NUMBER	- 070265		MATERIAL CODE	- RV
FEDERAL AID NO.	- TO BE ASSIGNED		SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE		SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK		COUNTY/STATE	- 10
SUPPLIER NAME	- STATE		DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.51 - I30 (S)			
PROJECT ENGINEER	- NOT APPLICABLE			
PIT/QUARRY	- ARKANSAS			
LOCATION	- CLARK, COUNTY		DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER		DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE		DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - RESISTANCE R-VALUE ACTUAL RESULTS			

LAB NUMBER	- 20141936	-	20141937	-	20141938
SAMPLE ID	- RV703	-	RV704	-	RV705
TEST STATUS	- INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	- LM10.7	-	LM12.5	-	LM13.7
LOCATION	- 22RT	-	20LT	-	20LT
DEPTH IN FEET	- 0-5	-	0-5	-	0-5
MAT'L COLOR	- BR/GR	-	BROWN	-	BROWN
MAT'L TYPE	-	-	-	-	-
LATITUDE DEG-MIN-SEC	- 34 3 18.80	-	34 02 16.70	-	34 1 27.60
LONGITUDE DEG-MIN-SEC	- 93 14 36.80	-	93 13 18.60	-	93 12 40.70
% PASSING	2 IN.	-	-	-	-
	1 1/2 IN.	- 100	-	-	100
	3/4 IN.	- 88	- 100	-	96
	3/8 IN.	- 87	- 94	-	88
	NO. 4	- 84	- 92	-	88
	NO. 10	- 83	- 89	-	87
	NO. 40	- 81	- 88	-	86
	NO. 80	- 76	- 84	-	85
	NO. 200	- 52	- 70	-	65
LIQUID LIMIT	- 28	-	ND	-	31
PLASTICITY INDEX	- 15	-	NP	-	13
AASHTO SOIL	- A-6(4)	-	A-4(0)	-	A-6(6)
UNIFIED SOIL	-	-	-	-	-
% MOISTURE CONTENT	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

REMARKS - W=MULTIPLE LAYERS
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/18/14		SEQUENCE NO.	- 2
JOB NUMBER	- 070265		MATERIAL CODE	- RV
FEDERAL AID NO.	- TO BE ASSIGNED		SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE		SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK		COUNTY/STATE	- 10
SUPPLIER NAME	- STATE		DISTRICT NO.	- 07
NAME OF PROJECT - HWY.51 - I30 (S)				
PROJECT ENGINEER - NOT APPLICABLE				
PIT/QUARRY	- ARKANSAS			
LOCATION	- CLARK, COUNTY		DATE SAMPLED	- 05/21/14
SAMPLED BY	- S.FAULKNER		DATE RECEIVED	- 05/23/14
SAMPLE FROM	- TEST HOLE		DATE TESTED	- 06/17/14
MATERIAL DESC.	- SOIL SURVEY - RESISTANCE R-VALUE ACTUAL RESULTS .			

LAB NUMBER	-	20141939	-	20141940	-
SAMPLE ID	-	RV706	-	RV707	-
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-
STATION	-	LM14.9	-	LM16.1	-
LOCATION	-	22LT	-	20LT	-
DEPTH IN FEET	-	0-5	-	0-5	-
MAT'L COLOR	-	BROWN	-	BR/GR	-
MAT'L TYPE	-		-		-
LATITUDE DEG-MIN-SEC	-	34 50.60	-	34 00 4.00	-
LONGITUDE DEG-MIN-SEC	-	93 11 41.60	-	93 11 8.90	-
% PASSING					
	2	IN.	-		-
	1 1/2	IN.	-	100	-
	3/4	IN.	-	86	-
	3/8	IN.	-	77	-
	NO. 4		-	84	-
	NO. 10		-	75	-
	NO. 40		-	83	-
	NO. 80		-	74	-
	NO. 200		-	81	-
			-	74	-
			-	73	-
			-	59	-
LIQUID LIMIT	-	24	-	35	-
PLASTICITY INDEX	-	08	-	18	-
AASHTO SOIL	-	A-4 (3)	-	A-6 (8)	-
UNIFIED SOIL	-		-		-
% MOISTURE CONTENT	-		-		-
	-		-		-
	-		-		-
	-		-		-
	-		-		-
	-		-		-
	-		-		-
	-		-		-
	-		-		-
	-		-		-
	-		-		-

REMARKS - W=MULTIPLE LAYERS
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