



**HIGHWAY FACTORS GROUP CHAIRMAN'S
FACTUAL REPORT**

Highway Attachment – Skid Test Data for I-15 in Vicinity of Crash Location

Pala Mesa, California

HWY20FH003

(10 pages)

Southbound I-15 Skid Test

Postmile R45.67 to R46.17

Legend





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 District 11 – Kearny Mesa Materials Laboratories
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REPORT OF SKID TEST
CALIFORNIA TEST 342

Dist, Co-Rte: 11, SD-15		Sheet: 1
Contract: Patrick Lee/ Guy Poirier		Number of Lanes: 4
EFIS 1117000101		Bridge Width:
Work Requested by: Patrick Lee/ Guy Poirier		Air Temperature: 49
Requestor's Phone No: [REDACTED]		Fax Number:
Test by: Javad Rhezaii		Bridge No: 57-0871L
Direction of Traffic: SB		Bridge Name: San Luis Rey River

Position: In the direction of traffic flow, denotes feet to the Left or Right edge of Travel Way.
 RS = Right side Shoulder (used for Lane 2,3, and 4)

Pavement passing = 0.30

Structure passing = 0.35

Test No.	Date of Test	Location				Test Measurement			Remarks
		Station	Lane	Position	% Grade	Measured	Corrected	Ave.*	
1	3/21/20	400+96	2	26' RS	0.5	0.35	0.36	0.37	Pass
		400+71	2	26' RS	0.5	0.37	0.38		
		400+46	2	26' RS	0.6	0.35	0.36		
		400+21	2	26' RS	0.9	0.35	0.36		
		300+96	2	26' RS	1.0	0.38	0.39		
Lane 2 Roadway									
2	3/21/20	0+18	2	30' RS	2.0	0.34	0.36	0.36	Pass
3	3/21/20	0+58	2	27' RS	2.4	0.35	0.37	0.37	Pass
Lane 2 Roadway									
4	3/21/20	500+50	2	27' RS	2.4	0.33	0.35	0.37	Pass
		500+46	2	26' RS	2.5	0.36	0.38		
		500+42	2	27' RS	2.7	0.35	0.38		
North half of the Bridge-Lane 2									
5	3/21/20	0+55	2	27' RS	3.1	0.35	0.38	0.37	Pass
		0+52	2	28' RS	3.1	0.32	0.35		
		0+49	2	27' RS	3.1	0.35	0.38		
South End of the Bridge- Lane 2									

Remarks: [REDACTED] 3/24/2020 P. 1 of 5



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REPORT OF SKID TEST
CALIFORNIA TEST 342

Sheet: 2

Dist, Co-Rte: 11, SD-015	Number of Lanes: 4
Contract: Patrick Lee/ Guy Poirier	Bridge Width:
EFIS 1117000101	Air Temperature: 49
Work Requested by: Patrick Lee/ Guy Poirier	
Requestor's Phone No: [REDACTED]	Fax Number:
Test by: Javad Rhezaii	Bridge No: 57-0871L
Direction of Traffic: SB	Bridge Name: San Luis Rey River

Position: In the direction of traffic flow, denotes feet to the Left or Right edge of Travel Way.
 RS = Right side Shoulder (used for Lane 2,3, and 4)

Pavement passing = 0.30

Structure passing = 0.35

Test No.	Date of Test	Location			% Grade	Test Measurement			Remarks
		Station	Lane	Position		Measured	Corrected	Ave.*	
6	3/21/20	600+06	3	24' RS	0.6	0.35	0.36	0.358	Pass
		500+81	3	24' RS	0.6	0.35	0.36		
		500+56	3	24' RS	0.8	0.34	0.35		
		500+31	3	24' RS	0.7	0.37	0.38		
		500+06	3	23' RS	0.8	0.33	0.34		
7	3/21/20	200+0	3	24' RS	1.4	0.35	0.36	0.36	Pass
	8	3/21/20	0+21	3	24' RS	1.9	0.33	0.34	0.34
9	3/21/20	200+44	3	23' RS	2.2	0.22	0.24	0.274	Fail
		200+40	3	23' RS	2.2	0.25	0.27		
		200+37	3	23' RS	2.2	0.24	0.26		
		200+34	3	23' RS	2.2	0.27	0.29		
		200+30	3	23' RS	2.2	0.29	0.31		
		200+32	3	23' RS	2.8	0.30	0.36		
10	3/21/20	200+28	3	23' RS	3.1	0.35	0.38	0.357	Pass
		200+24	3	23' RS	3.1	0.30	0.33		

Remarks: [REDACTED] 3/24/2020 P. 2 of 5



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REPORT OF SKID TEST
CALIFORNIA TEST 342

Sheet: 3

Dist, Co-Rte: 11, SD-015	Number of Lanes: 4
Contract: Patrick Lee/ Guy Poirier	Bridge Width:
EFIS 1117000101	Air Temperature: 49
Work Requested by: Patrick Lee/ Guy Poirier	
Requestor's Phone No: [REDACTED]	Fax Number:
Test by: Javad Rhezaii	Bridge No: 57-0871L
Direction of Traffic: SB	Bridge Name: San Luis Rey River

Position: In the direction of traffic flow, denotes feet to the Left or Right edge of Travel Way.
 RS = Right side Shoulder (used for Lane 2,3, and 4)

Pavement passing = 0.30

Structure passing = 0.35

Test No.	Date of Test	Location			% Grade	Test Measurement			Remarks
		Station	Lane	Position		Measured	Corrected	Ave.*	
11	3/21/20	200+76	4	10' RS	1.4	0.37	0.38	0.354	Pass
		200+51	4	10' RS	1.3	0.37	0.38		
		200+26	4	9' RS	1.2	0.33	0.34		
		200+01	4	9' RS	1.4	0.32	0.33		
		100+76	4	10' RS	1.5	0.33	0.34		
12	3/21/20	200+42	4	5' RS	2.5	0.34	0.37	0.367	Pass
		200+38	4	5' RS	2.5	0.34	0.37		
		200+34	4	5' RS	2.7	0.33	0.36		
North half of the Bridge-Lane 4									
13	3/21/20	0+33	4	10' RS	3.2	0.18	0.20	0.256	Fail
		0+30	4	10' RS	3.2	0.22	0.24		
		0+28	4	11' RS	3.1	0.24	0.26		
		0+26	4	10' RS	3.1	0.26	0.29		
		0+24	4	11' RS	3.1	0.26	0.29		

Remarks: [REDACTED] 3/24/2020 P. 3 of 5



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REPORT OF SKID TEST
CALIFORNIA TEST 342

Sheet: 4
 Number of Lanes: 4
 Bridge Width:
 Air Temperature: 49
 Fax Number:
 Bridge No: 57-0871L
 Bridge Name: San Luis Rey River

Dist, Co-Rte: 11, SD-015	Contract: Patrick Lee/ Guy Poirier
EFIS 1117000101	Work Requested by: Patrick Lee/ Guy Poirier
Requestor's Phone No: [Redacted]	Test by: Javad Rhezaii
Direction of Traffic: SB	Bridge No: 57-0871L
	Bridge Name: San Luis Rey River

Position: In the direction of traffic flow, denotes feet to the Left or Right edge of Travel Way.
 RS = Right side Shoulder (used for Lane 2,3, and 4)

Pavement passing = 0.30

Structure passing = 0.35

Test No.	Date of Test	Location			% Grade	Test Measurement			Remarks
		Station	Lane	Position		Measured	Corrected	Ave.*	
14	3/21/20	1089+00	4	10' RS	4.4	0.34	0.39	0.392	Pass
		1089+25	4	10' RS	4.2	0.33	0.38		
		1089+50	4	10' RS	4.4	0.32	0.37		
		1089+75	4	10' RS	4.3	0.33	0.38		
		1089+100	4	10' RS	4.0	0.38	0.44		

Remarks: [Redacted] 3/24/2020 P. 4 of 5



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REPORT OF SKID TEST
CALIFORNIA TEST 342

Sheet: 5

Dist, Co-Rte: 11, SD-015	Number of Lanes: 4
Contract: Patrick Lee/ Guy Poirier	Bridge Width:
EFIS 1117000101	Air Temperature: 49
Work Requested by: Patrick Lee/ Guy Poirier	
Requestor's Phone No: [REDACTED]	Fax Number:
Test by: Javad Rhezaii	Bridge No: 57-0871L
Direction of Traffic: SB	Bridge Name: San Luis Rey River

Position: In the direction of traffic flow, denotes feet to the Left or Right edge of Travel Way.
 LS = Left side Shoulder, (used for Lane 1 only)

Pavement passing = 0.30

Structure passing = 0.35

Test No.	Date of Test	Location				% Grade	Test Measurement			Remarks	
		Station	Lane	Position	Measured		Corrected	Ave.*			
15	3/21/20	200+77	1	7' LS	1.3	0.38	0.39	0.40	Pass		
		200+52	1	6' LS	1.4	0.90	0.40				
		200+27	1	7' LS	1.5	0.37	0.39				
		Lane 1 Roadway		200+02	1	7' LS	1.4			0.38	0.39
		100+77	1	8' LS	1.5	0.40	0.43				
16	3/21/20							0.43	Pass		
		00+31	1	7' LS	1.7	0.40	0.43				
17	3/21/20	600+27	1	9' LS	2.0	0.40	0.43	0.416	Pass		
		600+23	1	9' LS	2.1	0.38	0.41				
		600+20	1	9' LS	2.1	0.38	0.41				
18	3/21/20	500+14	1	8' LS	2.4	0.35	0.37	0.37	Pass		
19	3/21/20	00+90	1	2' LS	3.7	0.28	0.32	0.312	Fail		
		00+88	1	2' LS	3.5	0.28	0.32				
		00+86	1	2' LS	3.3	0.28	0.31				
		South End of the Bridge- Lane 1		00+84	1	2' LS	3.4			0.27	0.30
		00+82	1	2' LS	3.4	0.28	0.31				
20	3/21/20	00+11	1	2' LS	3.3	0.28	0.31	0.31	Fail		

Remarks: [REDACTED] 3/24/2020 P. 5 of 5



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REPORT OF SKID TEST
 CALIFORNIA TEST 342

Sheet: 1 of 2

Dist, Co-Rte: 11-SD-15	Number of Lanes: 4
Contract: 1117000101	Bridge Width:
EFIS	Air Temperature: 50°F - 68°F
Work Requested by: PATRICK LEE	
Requestor's Phone No: [REDACTED]	Fax Number:
Test by: DANIEL PAUL SMITH	Bridge No:
Direction of Traffic: SOUTHBOUND	Bridge Name: SAN LUIS REY RIVER BRIDGE

Position: In the direction of traffic flow, denotes feet to the Left or Right edge of Travel Way.

Pavement passing = 0.30

Structure passing = 0.35

Test No.	Date of Test	Location			% Grade	Test Measurement			Remarks
		Station	Lane	Position		Measured	Corrected	Ave.*	
1	3/21/20	131' s/o Br	2	2' RT	+ 2	.35	.37	.37	
		156'			+ 2	.35	.37.5		
		181'			+ 2.5	.33	.35.5		
		206'			+ 2.5	.32	.34		
		231' ↓	↓	↓	+ 2.5	.35	.37		
2	3/21/20	753' s/o Br	2	2' RT	+ 4	.31	.35	.38	
		778'			+ 4	.33	.38		
		803'			+ 4	.34	.39		
		828'			+ 4	.35	.40		
		853' ↓	↓	↓	+ 4	.33	.38		
3	3/21/20	5' s/o Br	3	2' RT	0	.22	.22	.31	AVG OF 5 SHOTS
		30'			0	.32	.32		
		55'			+ 1	.32	.33		
		80'			+ 1	.31	.32		
		105' ↓	↓	↓	+ 2	.32	.34		
4	3/21/20	944' s/o Br	3	2' RT	+ 4	.28	.32	.33	AVG OF 5 SHOTS
		969'			+ 4	.28	.32		
		994'			+ 4	.29	.33		
		1019'			+ 4	.30	.34		
		1044' ↓	↓	↓	+ 4	.30	.34		
5	3/21/20	125' s/o Br	4	2' LT	+ 2	.30	.32	.28	AVG OF 5 SHOTS
		150'			+ 2	.27	.29		
		175'			+ 2.5	.24	.26.5		
		200'			+ 2.5	.23	.25.5		
		225' ↓	↓	↓	+ 2.5	.25	.27.5		

NOTES - S/O - SOUTH OF Br - BRIDGE AVG - AVERAGE



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REPORT OF SKID TEST
 CALIFORNIA TEST 342

Sheet: 2 OF 2

Dist, Co-Rte: 11-SD-15	Number of Lanes: 4
Contract: 1117000101	Bridge Width:
EFIS	Air Temperature: 50°F 68°F
Work Requested by: PATRICK LEE	Fax Number:
Requestor's Phone No: [REDACTED]	Bridge No:
Test by: DANIEL PAUL SMITH	Bridge Name: SAN LUIS REY RIVER BRIDGE
Direction of Traffic: SOUTH BOUND	

Position: In the direction of traffic flow, denotes feet to the Left or Right edge of Travel Way.

Pavement passing = 0.30

Structure passing = 0.35

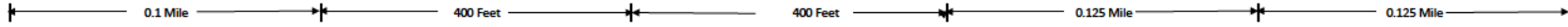
Test No.	Date of Test	Location			% Grade	Test Measurement			Remarks
		Station	Lane	Position		Measured	Corrected	Ave.*	
6	3/21/20	485'	S/2 Br	1	2' RT	+4	.35	.40	.41
		510'				+4	.38	.44	
		535'				+4	.33	.38	
		560'				+4	.35	.40	
		585'				+4	.36	.41	
7	3/21/20	1089'	S/2 Br	1	2' RT	+4	.38	.44	.41
		1114'				+4	.35	.40	
		1139'				+4	.36	.41	
		1164'				+4	.35	.40	
		1189'				+4	.36	.41	

Remarks: S/2 = SOUTH OF Br - Bridge

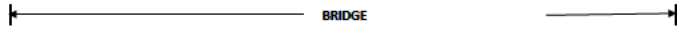


1117000101 SKID TEST RESULTS

Date Performed 3/21/20
Date Updated 9/9/20



Lane #1	0.40	Visual	0.41	0.31	0.41	0.41
Lane #2	0.37	Visual	0.37	0.37	0.37	0.38
Lane #3	0.36	0.27	0.36		0.31	0.33
Lane #4	0.35	0.37	0.26		0.28	0.39



I-15 Southbound Lanes