

Location 1



5761 Copley Drive Suite 100
 San Diego, CA 92111
 p 858.223.8500

LABORATORY TEST REPORT

Project Name: County TO-07 Overlay South FY 19-20 - #1023466
Project Number: 20192329.007A
Sample Number: 21-SAN-00171
Sample Type: 1/2" HMA Type A (PMAC) PG58-34M (Mix #21212415)
Supplier: CCA Lakeside
Location: 3768 Corral Canyon Road

Date: 2/8/2021
Date Sampled: 2/5/2021
Sampled By: C. De La Torre
Truck Number: SDLUIS22
Load: 19
Cum. Tons: 360.78

Test Property	A	B	C	Average	Requirement
Asphalt Content, % by TM, CT 382	5.46	-	-	5.46	5.09 - 5.89
Bulk Specific Gravity, CT 308A	2.346	2.350	2.351	2.349	-
Maximum Specific Gravity, CT 309	2.436			2.436	-
Air Voids, AASHTO CT 367, %	3.7	3.5	3.5	3.6	2.5 - 5.5
Hveem Stability, CT 366	37	38	37	37	37 min.
HMA Moisture Content, CT 370, %	0.00	0.00		0.00	1.00 max.

Remarks :

ATTACHMENT:

Attachment 1 - HMA Test Data Sheet

Limitations: Pursuant to applicable codes, the results presented in this report are for the exclusive use of the client and the registered design professional in responsible charge. The results apply only to the samples tested. If changes to the specification were made and not communicated to Kleinfelder, Kleinfelder assumes no responsibility for pass/fail statements (meets/did not meet), if provided. This report may not be reproduced, except in full, without written approval of Kleinfelder.



HMA TEST DATA SHEET

Project Name: County TO-07 Overlay South FY 19-20 - #1023466
Project Number: 20192329.007A
Sample Number: 21-SAN-00171
Sample Type: 1/2" HMA Type A (PMAC) PG58-34M (Mix #2121)
Supplier: CCA Lakeside
Location: 3768 Corral Canyon Road

Date: 2/8/2021
Date Sampled: 2/5/2021
Sampled By: C. De La Torre
Truck Number: SDLUIS22
Load: 19
Cum. Tons: 360.78

Bulk Specific Gravity (CT 308A)

Sample Mark	Height in.	Mass, grams			F	Bulk Sp. Gr. Gmb	Theor. Max. Sp. Gr. Gmm	Air Voids Va, %
		A	D	E				
A	2.49	1200.0	1221.5	686.1	0.9	2.346	2.436	3.7
B	2.48	1200.2	1224.3	686.8	0.9	2.350	2.436	3.5
C	2.48	1200.9	1224.1	687.6	0.9	2.351	2.436	3.5
Average	2.48					2.349		3.6

- A Weight of dry sample in air, g
- D Weight of coated dry sample
- E Weight of coated dry sample in water, g
- F Specific gravity of paraffin

Asphalt Content (CT 382)		
Temperature, C	482	
Elapsed Time, minutes	56	
Basket and Catch Pan, g	3068.8	
Sample, Bsk, Pan Before Ignition, g	4851.5	
Sample, Bsk, Pan After Ignition, g	4744.9	
Weight Loss, g	106.6	
% Binder by TM without C.F.	5.98	
Correction Factor (C.F.)	0.52	
% Binder by TM Corrected	5.46	
Correction Factor Calibration (CT 382)		
From JMF 12/23/2020		
Sample	1	2
Temperature, C	482	482
Elapsed Time, minutes	59	73
Basket and Catch Pan, g	3068.7	3077.6
Sample, Bsk, Pan Before Ignition, g	4658.1	4649.1
Sample, Bsk, Pan After Ignition, g	4564.1	4556.4
Weight Loss, g	94.0	92.7
Percent Binder by TM	5.91	5.90
Binder Content Known	5.39	5.39
Correction Factor (C.F.)	0.52	0.51
Average Correction Factor (C.F.)	0.52	
Theoretical Max. Spec. Gravity (CT 309)		
Test No.	1	
Mass Oven Dry Sample	1856.4	
Mass Bowl Filled with Water, g	7352.9	
Mass Container, Water, Sample, g	8447.1	
Theor. Maximum Specific Gravity	2.436	

HMA Moisture Content (CT 370)		
	Sample A	Sample B
1st Cycle	510.1	522.9
2nd Cycle	510.1	522.9
3rd Cycle	510.1	522.9
4th Cycle	510.1	522.9
Moisture Content:	0.00	0.00
Average Moisture Content (%):		0.0

Hveem Stability (CT 366)			
Load, lbs	A	B	C
500	6	6	6
1000	9	8	9
2000	16	13	15
3000	26	23	24
4000	39	35	36
5000	50	48	49
6000	66	62	63
Disp'ment	2.66	2.68	2.75
Height, in.	2.49	2.48	2.48
S- Value	37	38	37
Corrected	37	38	37
Average	37		

$$G_{ser} = (P_{mm} - P_{br}) / (P_{mm}/G_{mmr} - P_{br}/G_{br})$$

G_{ser} Eff. Sp. Gr. of agg in RAP
 G_{mmr} Theor. max sp. Gr. of RAP mix
 P_{br} Asphalt Binder of RAP % by Total Mix
 G_{br} Sp. Gr. of Binder = 1.02
 P_{mm} = 100

Asphalt Content Equation:
 Corrected Binder = Uncorr. Binder - C.F.



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 San Diego, CA 92111
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LABORATORY TEST REPORT

Project Name:	<u>County TO-07 Overlay South FY 19-20 - #1023466</u>	Date:	<u>2/8/2021</u>
Project Number:	<u>20192329.007A</u>	Date Sampled:	<u>2/5/2021</u>
Sample Number:	<u>21-SAN-00171</u>	Sampled By:	<u>C. De La Torre</u>
Sample Type:	<u>1/2" HMA Type A (PMAC) PG58-34M (Mix #21212415)</u>	Truck Number:	<u>SDLUIS22</u>
Supplier:	<u>CCA Lakeside</u>	Load:	<u>19</u>
Location:	<u>3768 Corral Canyon Road</u>	Cum. Tons:	<u>360.78</u>

Test Property	A	B	C	Average	Requirement
Asphalt Content, % by TM, CT 382	5.46	-	-	5.46	5.09 - 5.89
Bulk Specific Gravity, CT 308A	2.346	2.350	2.351	2.349	-
Maximum Specific Gravity, CT 309	2.436			2.436	-
Air Voids, AASHTO CT 367, %	3.7	3.5	3.5	3.6	2.5 - 5.5
Hveem Stability, CT 366	37	38	37	37	37 min.
HMA Moisture Content, CT 370, %	0.00	0.00		0.00	1.00 max.

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Project Number: 20192329.007A
Sample Number: 21-SAN-00171
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Supplier: CCA Lakeside
Location: 3768 Corral Canyon Road

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Cum. Tons: 360.78

Bulk Specific Gravity (CT 308A)

Sample Mark	Height in.	Mass, grams			F	Bulk Sp. Gr. Gmb	Theor. Max. Sp. Gr. Gmm	Air Voids Va, %
		A	D	E				
A	2.49	1200.0	1221.5	686.1	0.9	2.346	2.436	3.7
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C	2.48	1200.9	1224.1	687.6	0.9	2.351	2.436	3.5
Average	2.48					2.349		3.6

- A Weight of dry sample in air, g
- D Weight of coated dry sample
- E Weight of coated dry sample in water, g
- F Specific gravity of paraffin

Asphalt Content (CT 382)		
Temperature, C	482	
Elapsed Time, minutes	56	
Basket and Catch Pan, g	3068.8	
Sample, Bsk, Pan Before Ignition, g	4851.5	
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Sample	1	2
Temperature, C	482	482
Elapsed Time, minutes	59	73
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3rd Cycle	510.1	522.9
4th Cycle	510.1	522.9
Moisture Content:	0.00	0.00
Average Moisture Content (%):		0.0

Hveem Stability (CT 366)			
Load, lbs	A	B	C
500	6	6	6
1000	9	8	9
2000	16	13	15
3000	26	23	24
4000	39	35	36
5000	50	48	49
6000	66	62	63
Disp'ment	2.66	2.68	2.75
Height, in.	2.49	2.48	2.48
S- Value	37	38	37
Corrected	37	38	37
Average	37		

$$G_{ser} = (P_{mm} - P_{br}) / (P_{mm}/G_{mmr} - P_{br}/G_{br})$$

G_{ser} Eff. Sp. Gr. of agg in RAP
 G_{mmr} Theor. max sp. Gr. of RAP mix
 P_{br} Asphalt Binder of RAP % by Total Mix
 G_{br} Sp. Gr. of Binder = 1.02
 P_{mm} = 100


Asphalt Content Equation:
 Corrected Binder = Uncorr. Binder - C.F.

JM
4-15-21



DAILY FIELD REPORT

Materials Lab

Project Title <u>Overlay South</u>		Job No. <u>1023466</u>	
Project Location <u>Bonita-Corral Cyn</u>		Date <u>4-14-21</u> <u>4-15-21</u>	Page <u>1</u> of <u>1</u>
County Inspector <u>M. Chikward</u>		Field Technician <u>JM</u>	
General / Subcontractor <u>ATP</u>		Foreman	
Observation / Testing of <u>Ac overlay</u>			
Equipment / Method of Compaction <u>vibe rollers; PTR</u>			
Arrival	Departure	Time Charged	
Weather Conditions <u>partly clear 61°f</u>			
Other Pertinent Conditions			
Description of Work Inspection			
<p><u>1/2" PMAC Type A 58-34M #21212415 placed by paver and compacted using dual drum vibe rollers and PTR. No samples collected today in field by QC. Test conducted produced min 95% R.C. Inspector requested moisture check due to areas pumping. Moisture test ^{SG} in front of 4393 Corral Cyn conducted resulted in 16.2% moisture. Result Result reported to inspector.</u></p>			
Vehicles and Equipment Used			
For test results(s) see "Request For and Report of Compaction Tests" (Form 46)			
Items to be addressed at next site visit			
			<u>4-15-21</u>
County Inspector/Superintendent Signature			Date

Location 2



DAILY FIELD REPORT

Materials Lab

Project Title <u>19-20 Overlay South</u>		Job No. <u>1023466</u>
Project Location <u>Jamul</u>		Date <u>4/6/2021</u> Page <u>1</u> of <u>1</u>
County Inspector		Field Technician <u>S. Andersson</u>
General / Subcontractor <u>ASP</u>		Foreman
Observation / Testing of <u>Ac compaction</u>		
Equipment / Method of Compaction		
Arrival	Departure	Time Charged
Weather Conditions <u>Sunny, clear, 68°F</u>		
Other Pertinent Conditions		
Description of Work Inspection		
<p><u>Arrived on site for compaction testing of 1/2" Pmac. P3 58-34M, and 1/2" Pmac P3 58-34M with Fiber being produced by CCA-Lakeside. Performed multiple tests at various locations on Skyline Truck Trail. All tests performed met & exceeded the minimum requirement of 95% compaction. Samples of the Pmac with Fiber were taken on Skyline Truck Trail. Samples were brought back to county Materials Lab for further testing. Was unable to locate RE for signature, and had no cell service to call.</u></p>		
Vehicles and Equipment Used		
For test results(s) see "Request For and Report of Compaction Tests" (Form 46)		
Items to be addressed at next site visit		
County Inspector/Superintendent Signature		<u>4/6/2021</u> Date



COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
MATERIAL TESTING LABORATORY



CALTRANS TEST 375 - DENSITY AND RELATIVE COMPACTION OF IN-SITU ASPHALT CONCRETE

PROJECT: 19-20 abray south
TESTED BY: S. Anderson DATE: 4/6/2021
NUCLEAR DEVICE: Troxler
PROJECT NUMBER: 1023466
LOT NUMBER: LIFT THICKNESS: Model & ID: #7
LANE NUMBER: DEPTH USED: 13.5. CALIB. DATE:
LIFT NUMBER: Mix Type: 2 1/2 in / 2 1/2 in Plant: CGA - L.S. (A) STD. COUNT:
FIELD NOTES AND CALCULATIONS: (use back for additional note)
skyline truck trail

TEST AREA LIMITS
(D) LENGTH (C-B):
(E) LANE WIDTH:

	COLUMN	RANDOM NUMBER										BLOCK #		
		TABLE #												
(G)	LEFT (Longitudinal Location)													
(H)	RIGHT (Transverse Location)	21-367	21-368	21-369	21-370	21-371	21-372	21-373						
TEST SITE LOCATIONS		1	2	3	4	5	6	7	8	9	10			
(I)	Longitudinal Distance from Start D x G (round up to whole number)	1546 skyline TRK.	1601 skyline TRK.	16232 skyline TRK.	16232 skyline TRK.	230' Edge 16232.594 TRK.	16390 skyline TRK.	300' Edge 16390 skyline TRK.						
(J)	STATION (I + B)	TRK.	TRK.	TRK.	TRK.	TRK.	TRK.	TRK.						
(K)	Transverse Distance from Edge E x H (round up to whole number)	4' from center	5' from center	4' from center	4' from center	31' from center	3' from center	47' from center						
(N)	DENSITY (g/cc) (round to nearest 0.01g/cc)	a 142.6	141.6	142.7	143.7	139.3	139.7	142.8						
		b 142.6	141.6	142.7	143.7	139.3	139.7	142.8						
	avg.	142.6	141.6	142.7	143.7	139.3	139.7	142.8						
	Relative Compaction (%)	97%	96%	97%	98%	95%	95%	97%						
(G)	LEFT (Longitudinal Location)													
(H)	RIGHT (Transverse Location)													
TEST SITE LOCATIONS		11	12	13	14	15	16	17	18	19	20			
(K)	Longitudinal Distance from Start D x G (round up to whole number)													
(J)	STATION (I + B)													
	Transverse Distance from Edge E x H (round up to whole number)													
(N)	DENSITY (g/cc) (round to nearest 0.01g/cc)	a												
		b												
	avg.													
	Relative Compaction (%)													

(O) Average In-Place Density (all site), g/cc
(P) Conversion Factor (device to cores)
(Q) Corrected In-Place Density (O+ P), g/cc

Laboratory Test Maximum Density, g/cc
Relative Compaction, %

147.0 P.C.F.
95%

**Twining, Inc. - San Diego Lab**

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report**Report No: DFR:W02-21-01402-01**

Date of Issue: 04/14/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123	Project No: 200638.2
Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA	Permit No: OSHPD: DSA File #: DSA AP #:

Distribution:	
Jurisdiction: County of San Diego	Approved Signatory: Andrew Suarez

Test Date: Friday, April 9, 2021	Inspector: Jose Franco-Casas	
Inspection No.:		
Contractor: ATP General Engineering		
Equipment Obsv.: a) Mechanical broom, b) Bear Cat CRC distributor truck, c) Cat paver, d) Cat CB54B dual smooth drums vibratory compactor, e) Dynapac CC4200 VI vibratory compactor, f) Cat CB7 vibratory compactor, g) Water truck, h) Deere 210L skip loader		
Time Arrived: 7:00 AM	Time Departed: 3:15 PM	Time on Site: 8.25 Hrs
Lunch Start: 11:15 AM	Lunch End: 11:45 AM	Travel Time: 2 Hrs
Mileage: 90.0	Weather: Sunny	

Types of Testing / Observations
Asphalt - Field Density Testing

Referenced Documents

Observations / Remarks
<p>****Regular: _8.0__ OT:_1.75__ DT:___ Reason for Travel:_Transport of CPN nuclear gauge and AC gear__ Miles to Jobsite:_45__ Miles from Jobsite:_45__ Travel to Jobsite (start):_6:00am__ Travel to Jobsite (end):_7:00am__ Travel from Jobsite (start):_3:15pm__ Travel from Jobsite (end):_4:15pm__ Expenses:_____ Equipment Used: _CPN nuclear gauge_____ ****</p> <p>ASPHALT - FIELD DENSITY TESTING Picked up the density gauge and AC gear from the San Diego office. On site as requested to provide AC compaction test for the asphalt concrete 2" overlay at Skyline Truck (West bound) in Jamul, Ca. Upon arrival met ATP foreman Looney to discuss the scope of work for today. Observe a mechanical broom sweeping the road, then the tack coat application with a Bear Cat sprayer truck. Contractor constructed one digouts at house No. 17056, then placed the HMA 23412305//3/4" HMA Type A, this area was compacted to a RC of 95%. Asphalt Concrete placement with a Cat paver, initial breakdown performed with a Cat CB54B smooth drums vibratory compactor, intermediate rolling with a Dynapac CC4200 roller, and final rolling generally with a Cat CB7 vibratory roller. Conducted 35 AC compaction test using a CPN MC-1DR-P Portaprobe nuclear gauge, these AC density test meet 95% project requirements, ATP personnel was notified. Today asphalt concrete production was as follows: I) HMA 23412305// 3/4" HMA Type A @ 19.49 tons, II) HMA 21212415F// 1/2" HMA 58-34M W/FIBER @ 641.3 tons, III) HMA 21212415// 1/2" HMA 58-34M Type A @ 647.3 tons.</p>



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-01402-O1


Date of Issue: 04/14/2021

Issue No: 1

<p>Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123</p> <p>Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA</p>	<p>Project No: 200638.2</p> <p>Permit No:</p> <p>OSHPD:</p> <p>DSA File #:</p> <p>DSA AP #:</p>
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<p>Distribution:</p> <p>Jurisdiction: County of San Diego</p>	 <p>Approved Signatory: Andrew Suarez</p>
------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------

All inspections based on minimum of 4 hours and over 4 hours - 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.



Jose Franco-Casas, Inspector/Technician

Remarks:

This report will be distributed to architect, engineer, client, and governing jurisdiction (e.g. DSA) as required by applicable codes and project documents.

Certificate of Compliance		
<p>The Work <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not inspected in accordance with the requirements of the County of San Diego approved documents</p>	<p>The Work Inspected <input checked="" type="checkbox"/> Met <input type="checkbox"/> Did Not Meet the requirements of the County of San Diego approved documents</p>	<p>Material Sampling was not performed</p>

All Reports Remain The Property of Twining, Inc. Authorization For The Publication Of Our Reports, Conclusions, Or Extracts From Or Regarding Them is Reserved Pending Our Written Approval As A Mutual Protection To Clients, The Public and Ourselves



Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424


Asphalt Nuclear Density Report

Report No: ND:W02-21-01402
 Date of Issue: 4/14/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Testing Details

Tested By: Jose Franco-Casas **Date Tested:** 4/9/2021
Plant: Lakeside **Gauge Make/Model:**
Method of Measurement: Backscatter **Density Standard Count:** 39577
Gauge Serial: **Moisture Standard Count:** 8245
Calibration Date: **Weather:** Sunny
Calibration Source:

Test Results

ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Jamul, Ca.													
1	17056 Skyline Truck Trail	NA	8.0	Centerline	23412305 3/4" HMA TYPE A	1	4.0	1 min.	148.60	140.70	95	≥95	P
2	3210A Skyline Truck Trail	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	138.70	95	≥95	P
3	3210B Skyline Truck Trail	NA	6.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	138.90	95	≥95	P
4	3245 Skyline Truck Trail	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	139.00	95	≥95	P
5	Skyline Truck Trail	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	138.80	95	≥95	P
6	Skyline Truck Trail	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	141.70	97	≥95	P
7	Skyline Truck Trail	NA	6.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	139.20	95	≥95	P

Remarks:



Twining, Inc. - San Diego Lab
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 Ph: 858-974-3750
 Fax: 562.426.6424

Asphalt Nuclear Density Report

Report No: ND:W02-21-01402
 Date of Issue: 4/14/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Jamul, Ca.													
8	16887A Skyline Truck Trail	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	138.90	95	≥95	P
9	16887A Skyline Truck Trail	NA	6.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	140.40	96	≥95	P
10	Skyline Truck Trail	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	138.80	95	≥95	P
11	Skyline Truck Trail	NA	4.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	138.70	95	≥95	P
12	Skyline Truck Trail	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	138.60	95	≥95	P
13	17091A Skyline Truck Trail	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	140.10	96	≥95	P
14	17091B Skyline Truck Trail	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	140.00	95	≥95	P
15	17056A Skyline Truck Trail	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	138.90	95	≥95	P
16	17056B Skyline Truck Trail	NA	6.0	Centerline	21212305F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	139.50	95	≥95	P

Remarks:



Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424

Asphalt Nuclear Density Report

Report No: ND:W02-21-01402
 Date of Issue: 4/14/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Jamul, Ca.													
17	Skyline Truck Trail	NA	10.0	Centerline	21212305F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	138.70	95	≥95	P
18	17071 Skyline Truck Trail	NA	4.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	138.60	95	≥95	P
19	17081 Skyline Truck Trail	NA	6.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	146.60	139.60	95	≥95	P
20	Skyline Truck Trail	NA	4.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	139.40	95	≥95	P
21	17081 Skyline Truck Trail	NA	4.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	140.80	95	≥95	P
22	17081 Skyline Truck Trail	NA	8.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	139.70	95	≥95	P
23	Skyline Truck Trail	NA	8.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	139.80	95	≥95	P
24	Skyline Truck Trail	NA	4.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	141.40	96	≥95	P
25	Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	143.40	97	≥95	P
26	Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	141.90	96	≥95	P
27	Skyline Truck Trail	NA	4.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	139.50	95	≥95	P

Remarks:



Asphalt Nuclear Density Report


Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424

Report No: ND:W02-21-01402
 Date of Issue: 4/14/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHDP:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Jamul, Ca.													
28	17368A Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	139.60	95	≥95	P
29	17368A Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	140.70	95	≥95	P
30	Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	139.60	95	≥95	P
31	Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	139.50	95	≥95	P
32	Skyline Truck Trail	NA	4.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	139.70	95	≥95	P
33	Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	139.90	95	≥95	P
34	Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	140.10	95	≥95	P
35	Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	147.50	139.80	95	≥95	P

Remarks:



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay North		Date Sampled:	4/8/2021	
Material Description:	Combined RAP		Time Sampled:	605am	
Material Source:	CCA Lakeside		Sampled By:	I. Montano	
Sample Location:	Belt Cut		Date Tested:	4/8/2021	
Lot #:		Sublot #:	Tons Out:	Tested By:	I. Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3222.1	Dry Weight:	3146.5	RAP Moisture:	2.4%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2879.6	Basket + Sample	4460.5	HMA Sample Mass	1580.9
Basket + Sample Burned	4360.9	Burned Agg Mass	1481.3	Approx. Oil % TWM	5.04

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	30.3	2.0%	98.0%	+0.2	98.2%
3/8" (9.5mm)	124.4	8.4%	91.6%	+0.6	92.2%
#4 (4.75mm)	365.5	24.7%	75.3%	-0.8	74.5%
#8 (2.36mm)	119.5	42.5%	57.5%	+0.5	58.0%
#16 (1.18mm)	211.2	56.1%	43.9%	-0.7	43.2%
#30 (600µm)	283.1	66.8%	33.2%	-0.6	32.6%
#50 (300µm)	356.8	77.8%	22.2%	-0.2	22.0%
#100 (150µm)	413	86.1%	13.9%	+0.3	14.2%
#200 (75µm)	446.1	91.0%	9.0%	+0.5	9.5%
Mass of #4 Split	506.3				

Approved By:

Patrick Terrell
 Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay South				Date Sampled:	4/9/2021			
Material Description:	21212415 1/2" HMA-A w/25% RAP				Time Sampled:	900am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/9/2021			
Tons Out:	Load #	Lot #	Sublot #	Tested By:	I. Montano				

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5377.3	Dry Weight:	5284.3	% Moisture:	1.76%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	429	8.1%	91.9%	68.9%	98.2%	24.5%	93%	96 90-100
3/8" (9.5mm)	1382.3	26.2%	73.8%	55.4%	92.2%	23.1%	78%	77 71-83
#4 (4.75mm)	2563.8	48.5%	51.5%	38.6%	74.5%	18.6%	57%	55 48-62

Fine Agg Dry Weight:	514.4
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	118.3	23%	77%	40%	29.7%	58.0%	14.5%	44%	43 38-48
#16 (1.18mm)	226	44%	56%	29%	21.6%	43.2%	10.8%	32%	33
#30 (600µm)	319.1	62%	38%	20%	14.7%	32.6%	8.2%	23%	22 17-25
#50 (300µm)	413.7	80%	20%	10%	7.6%	22.0%	5.5%	13%	13
#100 (150µm)	452.7	88%	12%	6%	4.6%	14.2%	3.5%	8%	7
#200 (75µm)	476.5	92.6%	7.4%	3.8%	2.8%	9.5%	2.4%	5.2%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.2	6.6	64	47
2	4.2	6.8	62	
3	4.3	6.9	63	
Average			63	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South	Date Sampled:	4/9/2021		
Mix Type:	21212415 1/2" HMA-A w/25% RAP	Time Sampled:	950am	Load #:	3
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	4/9/2021		
Ticket #:	1701253947	Tons Out:	54.9	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:	
Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-34 Holly
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2871.4	
Mass of Mixed Sample + Basket, M_1 (g):	4405.7	
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1534.3	
Mass of Sample + Basket after burn off, M_2 (g):	4317.6	
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1446.2	
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.74%	
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.29%	5.59%
	% by Total Weight of Mix	% by Dry Weight of Agg

Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay South		Date Sampled:	4/9/2021
Material Description:	Combined RAP		Time Sampled:	540am
Material Source:	CCA Lakeside		Sampled By:	I. Montano
Sample Location:	Belt Cut		Date Tested:	4/9/2021
Lot #:		Sublot #:	Tons Out:	Tested By: I. Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3222.1	Dry Weight:	3146.5	RAP Moisture:	2.4%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2879.6	Basket + Sample	4460.5	HMA Sample Mass	1580.9
Basket + Sample Burned	4360.9	Burned Agg Mass	1481.3	Approx. Oil % TWM	5.04

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	30.3	2.0%	98.0%	+0.2	98.2%
3/8" (9.5mm)	124.4	8.4%	91.6%	+0.6	92.2%
#4 (4.75mm)	365.5	24.7%	75.3%	-0.8	74.5%
#8 (2.36mm)	119.5	42.5%	57.5%	+0.5	58.0%
#16 (1.18mm)	211.2	56.1%	43.9%	-0.7	43.2%
#30 (600µm)	283.1	66.8%	33.2%	-0.6	32.6%
#50 (300µm)	356.8	77.8%	22.2%	-0.2	22.0%
#100 (150µm)	413	86.1%	13.9%	+0.3	14.2%
#200 (75µm)	446.1	91.0%	9.0%	+0.5	9.5%
Mass of #4 Split	506.3				

Approved By:

Patrick Terrell
 Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay South				Date Sampled:	4/9/2021			
Material Description:	21212415 FIBER 1/2" HMA-A w/25% RAP				Time Sampled:	535am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/9/2021			
Tons Out:	Load #	Lot #	Sublot #		Tested By:	I. Montano			

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5951.8	Dry Weight:	5863.4	% Moisture:	1.51%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	418.3	7.1%	92.9%	69.6%	98.2%	24.5%	94%	96 90-100
3/8" (9.5mm)	1385.4	23.6%	76.4%	57.3%	92.2%	23.1%	80%	77 71-83
#4 (4.75mm)	2847.5	48.6%	51.4%	38.6%	74.5%	18.6%	57%	55 48-62

Fine Agg Dry Weight:	507.7
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	106.4	21%	79%	41%	30.5%	58.0%	14.5%	45%	43 38-48
#16 (1.18mm)	201	40%	60%	31%	23.3%	43.2%	10.8%	34%	33
#30 (600µm)	317	62%	38%	19%	14.5%	32.6%	8.2%	23%	22 17-25
#50 (300µm)	420.4	83%	17%	9%	6.6%	22.0%	5.5%	12%	13
#100 (150µm)	465.0	92%	8%	4%	3.2%	14.2%	3.5%	7%	7
#200 (75µm)	480.6	94.7%	5.3%	2.7%	2.1%	9.5%	2.4%	4.4%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.3	6.9	63	47
2	4.2	6.7	63	
3	4.4	7.1	62	
Average			63	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South	Date Sampled:	4/9/2021		
Mix Type:	21212415 FIBER 1/2" HMA-A w/25% RAP	Time Sampled:	701am	Load #:	7
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	4/9/2021		
Ticket #:	1701253907	Tons Out:	133.85	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-16 San Joaquin
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2880.0		
Mass of Mixed Sample + Basket, M_1 (g):	4446.8		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1566.8		
Mass of Sample + Basket after burn off, M_2 (g):	4352.0		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1472.0		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	6.05%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.60%	5.93%	
	% by Total Weight of Mix	% by Dry Weight of Agg	
Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay North			Date Sampled:	4/9/2021
Material Description:	Combined RAP			Time Sampled:	540am
Material Source:	CCA Lakeside			Sampled By:	I Montano
Sample Location:	Belt Cut			Date Tested:	4/9/2021
Lot #:		Sublot #:		Tons Out:	20
				Tested By:	I Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3222.1	Dry Weight:	3146.5	RAP Moisture:	2.4%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2879.6	Basket + Sample	4460.5	HMA Sample Mass	1580.9
Basket + Sample Burned	4360.9	Burned Agg Mass	1481.3	Approx. Oil % TWM	5.04

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	30.3	2.0%	98.0%	+0.2	98.2%
3/8" (9.5mm)	124.4	8.4%	91.6%	+0.6	92.2%
#4 4.75mm)	365.5	24.7%	75.3%	-0.8	74.5%
#8 (2.36mm)	119.5	42.5%	57.5%	+0.5	58.0%
#16 (1.18mm)	211.2	56.1%	43.9%	-0.7	43.2%
#30 (600µm)	283.1	66.8%	33.2%	-0.6	32.6%
#50 (300µm)	356.8	77.8%	22.2%	-0.2	22.0%
#100 (150µm)	413	86.1%	13.9%	+0.3	14.2%
#200 (75µm)	446.1	91.0%	9.0%	+0.5	9.5%
Mass of #4 Split	506.3				

Approved By:

Patrick Terrell
 Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay North				Date Sampled:	4/9/2021			
Material Description:	23412305 3/4" HMA-A w/25% RAP				Time Sampled:	555am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/9/2021			
Tons Out:	Load #	Lot #	Sublot #	Tested By:	I. Montano				

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5381.3	Dry Weight:	5306.3	% Moisture:	1.41%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained	Percent Passing	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
3/4" (19mm)	114.8	2.2%	97.8%	73.4%	100.0%	25.0%	98%	98 93-100
1/2" (12.5mm)	1553.6	29.3%	70.7%	53.0%	98.2%	24.5%	78%	75 69-81
3/8" (9.5mm)	2331.7	43.9%	56.1%	42.0%	92.2%	23.1%	65%	62
#4 (4.75mm)	3288.8	62.0%	38.0%	28.5%	74.5%	18.6%	47%	46 39-53

Fine Agg Dry Weight:	506.7
----------------------	-------

Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	88.4	17%	83%	31%	23.5%	58.0%	14.5%	38%	34 29-39
#16 (1.18mm)	170.2	34%	66%	25%	18.9%	43.2%	10.8%	30%	25
#30 (600µm)	284.8	56%	44%	17%	12.5%	32.6%	8.2%	21%	17 13-21
#50 (300µm)	398.3	79%	21%	8%	6.1%	22.0%	5.5%	12%	11
#100 (150µm)	453.3	89%	11%	4%	3.0%	14.2%	3.5%	7%	6
#200 (75µm)	474	93.5%	6.5%	2.5%	1.8%	9.5%	2.4%	4.2%	4.1 2.1-6.1

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.0	6.7	60	47
2	4.1	6.7	62	
3	4.0	6.5	62	
Average			61	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay North	Date Sampled:	4/9/2021		
Mix Type:	23412305 3/4" HMA-A w/25% RAP	Time Sampled:	631am	Load #:	1
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	4/9/2021		
Ticket #:	1701253900	Tons Out:	19.49	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-16 San Joaquin
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.58%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2871.8		
Mass of Mixed Sample + Basket, M_1 (g):	4902.3		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	2030.5		
Mass of Sample + Basket after burn off, M_2 (g):	4796.2		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1924.4		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.23%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	4.65%	4.87%	
	% by Total Weight of Mix		% by Dry Weight of Agg
Mix Moisture, MC	0		
Target by TWM:	5.03%	Allowable Range	4.58 - 5.48
Target by DWA:	5.30%	Allowable Range	4.80 - 5.80

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: _____

Patrick Terrell - QC Manager II



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-01387-01

Date of Issue: 04/14/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123	Project No: 200638.2
Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA	Permit No: OSHPD: DSA File #: DSA AP #:

Distribution:	
Jurisdiction: County of San Diego	Approved Signatory: Andrew Suarez

Test Date: Thursday, April 8, 2021	Inspector: Jose Franco-Casas	
Inspection No.:		
Contractor: ATP General Engineering		
Equipment Obsv.: a) Mechanical broom, b) Bear Cat CRC distributor truck c) Cat paver, d) Cat CB44B vibratory compactor, e) Cat CB7 vibratory compactor, f) Dynapac CC4200 VI vibratory compactor, g) Deere 210L skip loader, h)		
Time Arrived: 7:00 AM	Time Departed: 3:30 PM	Time on Site: 8.5 Hrs
Lunch Start: 11:15 AM	Lunch End: 11:45 AM	Travel Time: 2 Hrs
Mileage: 90.0	Weather: Sunny	

Types of Testing / Observations
Asphalt - Field Density Testing

Referenced Documents

Observations / Remarks

*****Regular: _8.0__ OT: _2.0__ DT: ___ Reason for Travel: _Transport of CPN nuclear gauge, AC gear and AC samples__ Miles to Jobsite: _45__ Miles from Jobsite: _45__ Travel to Jobsite (start):_6:00am__ Travel to Jobsite (end):_7:00am__ Travel from Jobsite (start):_3:30pm__ Travel from Jobsite (end):_4:30pm__ Expenses:_____ Equipment Used: _CPN nuclear gauge and AC gear. _____ *****

ASPHALT - FIELD DENSITY TESTING

Picked up the density gauge, AC gear and truck from the San Diego office.

On site as requested to provide AC density test for the 2" asphalt concrete overlay on **Skyline Truck Trail (WB) in Jamul, Ca.** approximately between PM-1 and PM-2. Upon arrival met ATP foreman Looney to discuss the scope of work for today. Contractor started with the construction of four digouts, and then placement of asphalt concrete. Contractor utilized asphalt concrete from CCA-Lakeside Plant. For the digouts they utilized the AC Mix ID 23412405- 3/4"HMA Type A, and for the 2" overlay they utilized first the fiver AC Mix ID **21212415F- 1/2" HMA 58-34M w/Fiber** followed for the Mix ID 21212415- 1/2" Type A 58-34M.

Observe a mechanical broom sweeping each road prior to the tack coat application.

These mixes were placed with a Cat paver, initial breakdown performed with a Cat CB44B vibratory compactor, intermediate rolling with a Cat CB7 vibratory roller, and final rolling generally with a Dynapac vibratory compactor.

As requested sampled the HMA without fiber Mix ID 21212415, as follows; Load No 26, Truck No SDC66, Ticket No 1701253891, Sample Time 14:05 hrs, AC temperature was 284°F, at 492.79 tons, cast three set of cardboard boxes, 8 for the County and 4 for Twining Lab.

Conducted 30 AC compaction test using a CPN MC-1DR-P Portaprobe nuclear gauge, these density test meet 95% County requirements, ATP personnel was notified prior my departure.

Samples were transported to Twining Lab in San Diego, CA.

Today asphalt concrete production was as follows:

a) HMA 23412305/ 3/4" HMA Type A was approx 57.01 tons, b) HMA 21212415F/ 1/2" HMA 58-34M W/Fiber was approx 641.3 tons, c) HMA 21212415/ 1/2" HMA Type A 58-34M was approx 647.1 tons.



Twining, Inc. - San Diego Lab

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San Diego, CA 92127

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Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-01387-O1


Date of Issue: 04/14/2021

Issue No: 1

<p>Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123</p> <p>Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA</p>	<p>Project No: 200638.2</p> <p>Permit No:</p> <p>OSHPD:</p> <p>DSA File #:</p> <p>DSA AP #:</p>
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<p>Distribution:</p> <p>Jurisdiction: County of San Diego</p>	 <p>Approved Signatory: Andrew Suarez</p>
------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------

All inspections based on minimum of 4 hours and over 4 hours - 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.



Jose Franco-Casas, Inspector/Technician

Remarks:

This report will be distributed to architect, engineer, client, and governing jurisdiction (e.g. DSA) as required by applicable codes and project documents.

Certificate of Compliance		
<p>The Work <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not inspected in accordance with the requirements of the County of San Diego approved documents</p>	<p>The Work Inspected <input checked="" type="checkbox"/> Met <input type="checkbox"/> Did Not Meet the requirements of the County of San Diego approved documents</p>	<p>The Material Sampling <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not performed in accordance with the requirements of the County of San Diego approved documents</p>

All Reports Remain The Property of Twining, Inc. Authorization For The Publication Of Our Reports, Conclusions, Or Extracts From Or Regarding Them is Reserved Pending Our Written Approval As A Mutual Protection To Clients, The Public and Ourselves



Daily Field Report

Twining, Inc. - San Diego Lab
15950 Bernardo Center Drive, Suite H
San Diego, CA 92127
Ph: 858-974-3750
Fax: 562.426.6424

Report No: DFR:W02-21-01387-01

Date of Issue: 4/14/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2

Permit No.:

OSHPD:

DSA File #:

DSA AP #:

Jurisdiction: County of San Diego
Distribution:

Approved Signatory: Andrew Suarez (Branch Manager)





Daily Field Report

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 Date of Issue: 4/14/2021 Issue No: 1

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 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:

Andrew Suarez
 Approved Signatory: Andrew Suarez (Branch Manager)

San Diego County Overlay-South
 South County

Product: 21212415
 Description: 1/2" HMA Type A 58-34M Environmental Fee

SCALE WEIGHT: 64,160 LB
 GROSS & TARE: 26,000 LB/P.T.
 Tare: 38,160 LB
 Net: _____

WEIGHMASTER CERTIFICATE
 THIS IS TO CERTIFY that the following described commodity was weight measured or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

WEIGHMASTER CERTIFICATE
 Received By Signature: _____
 Deputy Weighmaster: _____

ARRIVE JOB: Start Unloading, Finish Unloading, Standing Time, Customer's Initials, This Ticket's Grand Total

MIRAMAR
 HOT MIX ASPHALT, SEAL, EMULSION,
 RECYCLING, COLD MIX & EZ STREET
 9229 Harris Plant Rd.
 San Diego, CA 92145

LAKE ELSINORE
 HOT MIX ASPHALT,
 RECYCLING & EZ STREET
 10000 Nichols Rd.
 Lake Elsinore, CA 92532

CCCA CALIFORNIA COMMERCIAL ASPHALT HEIDELBERG CEMENT GROUP
 WEIGHMASTER STATION
 4433000
 12451 Valdillante Rd
 Lakeside, Ca 92040

TICKET NO: 1701253891
 Customer Name: _____
 Customer Job No: _____
 Customer Proj No: _____
 Truck Type: _____
 Trailer/Carrier No: _____
 Driver's Name: _____

WEIGHT: 19.08 Ton
 Unit Price: _____
 Amt: _____



Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424

Asphalt Nuclear Density Report

Report No: ND:W02-21-01387
 Date of Issue: 4/14/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Testing Details

Tested By: Jose Franco-Casas **Date Tested:** 4/8/2021
Plant: Lakeside **Gauge Make/Model:**
Method of Measurement: Backscatter **Density Standard Count:** 36352
Gauge Serial: **Moisture Standard Count:** 8244
Calibration Date: **Weather:** Sunny
Calibration Source:

Test Results

ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Jamul, Ca.													
1	Skyline Truck Trail	NA	8.0	Centerline	23412305 3/4" HMA TYPE A	1	4.0	1 min.	148.60	140.90	95	≥95	P
2	Skyline Truck Trail	NA	6.0	Centerline	23412305 3/4" HMA TYPE A	1	4.0	1 min.	148.60	140.60	95	≥95	P
3	Skyline Truck Trail	NA	8.0	Centerline	23412305 3/4" HMA TYPE A	1	4.0	1 min.	148.60	140.50	95	≥95	P
4	16232 Skyline Truck Trail	NA	6.0	Centerline	23412305 3/4" HMA TYPE A	1	4.0	1 min.	148.60	141.10	95	≥95	P
5	16232 Skyline Truck Trail	NA	6.0	Centerline	21212305F 1/2" HMA 58-34M W/fiber	1	2.0	1 min.	145.30	137.70	95	≥95	P
6	16001B Skyline Truck Trail	NA	8.0	Centerline	21212305F 1/2" HMA 58-34M W/Fiber	1	2.0	1 min.	145.30	137.50	95	≥95	P
7	Skyline Truck Trail	NA	6.0	Centerline	21212305F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	137.40	95	≥95	P
8	Skyline Truck Trail	NA	8.0	Centerline	21212305F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	139.20	96	≥95	P
9	Skyline Truck Trail	NA	8.0	Centerline	21212305F 1/2" HMA 58-34M W/Fiber	1	2.0	1 min.	145.30	138.30	95	≥95	P

Remarks:



Asphalt Nuclear Density Report


Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424

Report No: ND:W02-21-01387
 Date of Issue: 4/14/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Jamul, Ca.													
10	Skyline Truck Trail	NA	8.0	Centerline	21212305F 1/2" HMA 58-34M W/fiber	1	2.0	1 min.	145.30	139.30	96	≥95	P
11	Skyline Truck Trail	NA	6.0	Centerline	21212305F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	140.30	97	≥95	P
12	16232A Skyline Truck Trail	NA	6.0	Centerline	21212305F 1/2" HMA 58-34M W/Fiber	1	2.0	1 min.	145.30	137.80	95	≥95	P
13	16232B Skyline Truck Trail	NA	6.0	Centerline	21212305F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	141.00	97	≥95	P
14	16232C Skyline Truck Trail	NA	8.0	Centerline	21212305F 1/2" HMA 58-34M W/fiber	1	2.0	1 min.	145.30	137.80	95	≥95	P
15	16232D Skyline Truck Trail	NA	6.0	Centerline	21212305F 1/2" HMA 58-34M W/fiber	1	2.0	1 min.	145.30	137.50	95	≥95	P
16	16232E Skyline Truck Trail	NA	6.0	Centerline	21212305F 1/2" HMA 58-34M W/Fiber	1	2.0	1 min.	145.30	138.70	95	≥95	P
17	16232F Skyline Truck Trail	NA	6.0	Centerline	21212305F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	137.50	95	≥95	P
18	16390A Skyline Truck Trail	NA	6.0	Centerline	21212305F 1/2" HMA 58-34M W/fiber	1	2.0	1 min.	145.30	141.70	98	≥95	P

Remarks:



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Asphalt Nuclear Density Report

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Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Jamul, Ca.													
19	16390B Skyline Truck Trail	NA	6.0	Centerline	21212305F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	140.40	97	≥95	P
20	16390C Skyline Truck Trail	NA	8.0	Centerline	21212305F 1/2" HMA 58-34M W/Fiber	1	2.0	1 min.	145.30	138.40	95	≥95	P
21	16390D Skyline Truck Trail	NA	8.0	Centerline	21212305 1/2" HMA 58-34M TYPE A	1	2.0	1 min.	145.30	138.20	95	≥95	P
22	16390E Skyline Truck Trail	NA	6.0	Centerline	21212305 1/2" HMA 58-34M TYPE A	1	2.0	1 min.	145.30	138.40	95	≥95	P
23	16390E Skyline Truck Trail	NA	6.0	Centerline	21212305 1/2" HMA 58-34M TYPE A	1	2.0	1 min.	145.30	138.70	95	≥95	P
24	16390E Skyline Truck Trail	NA	6.0	Centerline	21212305 1/2" HMA 58-34M TYPE A	1	2.0	1 min.	145.30	139.30	96	≥95	P
25	16390E Skyline Truck Trail	NA	8.0	Centerline	21212305 1/2" HMA 58-34M TYPE A	1	2.0	1 min.	145.30	137.60	95	≥95	P
26	16390E Skyline Truck Trail	NA	6.0	Centerline	21212305 1/2" HMA 58-34M TYPE A	1	2.0	1 min.	145.30	140.80	97	≥95	P
27	Skyline Truck Trail	NA	6.0	Centerline	21212305 1/2" HMA 58-34M TYPE A	1	2.0	1 min.	145.30	137.90	95	≥95	P
28	Skyline Truck Trail	NA	8.0	Centerline	21212305 1/2" HMA 58-34M TYPE A	1	2.0	1 min.	145.30	137.70	95	≥95	P
29	Skyline Truck Trail	NA	6.0	Centerline	21212305 1/2" HMA 58-34M TYPE A	1	2.0	1 min.	145.30	137.70	95	≥95	P

Remarks:



Asphalt Nuclear Density Report

Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424

Report No: ND:W02-21-01387
 Date of Issue: 4/14/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Jamul, Ca.													
30	Skyline Truck Trail	NA	6.0	Centerline	21212305 1/2" HMA 58-34M TYPE A	1	2.0	1 min.	145.30	138.80	96	≥95	P

Remarks:



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay South		Date Sampled:	4/8/2021
Material Description:	Combined RAP		Time Sampled:	605am
Material Source:	CCA Lakeside		Sampled By:	I. Montano
Sample Location:	Belt Cut		Date Tested:	4/8/2021
Lot #:		Sublot #:	Tons Out:	Tested By: I. Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3124.5	Dry Weight:	3063.4	RAP Moisture:	2.0%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2879.9	Basket + Sample	4420.8	HMA Sample Mass	1540.9
Basket + Sample Burned	4321.3	Burned Agg Mass	1441.4	Approx. Oil % TWM	5.17

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	29	2.0%	98.0%	+0.2	98.2%
3/8" (9.5mm)	123.5	8.6%	91.4%	+0.6	92.0%
#4 4.75mm)	361.6	25.1%	74.9%	-0.8	74.1%
#8 (2.36mm)	106.5	40.7%	59.3%	+0.5	59.8%
#16 (1.18mm)	194.9	53.7%	46.3%	-0.7	45.6%
#30 (600µm)	269.3	64.6%	35.4%	-0.6	34.8%
#50 (300µm)	347.8	76.1%	23.9%	-0.2	23.7%
#100 (150µm)	408.5	85.0%	15.0%	+0.3	15.3%
#200 (75µm)	444.9	90.3%	9.7%	+0.5	10.2%
Mass of #4 Split	510.9				

Approved By:

Patrick Terrell
 Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay South				Date Sampled:	4/8/2021				
Material Description:	21212415 FIBER 1/2" HMA-A w/25% RAP				Time Sampled:	605am				
Material Source:	CCA Lakeside				Sampled By:	I. Montano				
Sample Location:	Belt Cut				Date Tested:	4/8/2021				
Tons Out:		Load #		Lot #		Sublot #		Tested By:	I. Montano	

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5867.1	Dry Weight:	5768.2	% Moisture:	1.71%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	548.5	9.5%	90.5%	67.9%	98.2%	24.5%	92%	96 90-100
3/8" (9.5mm)	1504.2	26.1%	73.9%	55.4%	92.0%	23.0%	78%	77 71-83
#4 (4.75mm)	2916.3	50.6%	49.4%	37.1%	74.1%	18.5%	56%	55 48-62

Fine Agg Dry Weight:	507.2
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	121.7	24%	76%	38%	28.2%	59.8%	14.9%	43%	43 38-48
#16 (1.18mm)	211.5	42%	58%	29%	21.6%	45.6%	11.4%	33%	33
#30 (600µm)	315.1	62%	38%	19%	14.0%	34.8%	8.7%	23%	22 17-25
#50 (300µm)	409.4	81%	19%	10%	7.2%	23.7%	5.9%	13%	13
#100 (150µm)	454.4	90%	10%	5%	3.9%	15.3%	3.8%	8%	7
#200 (75µm)	473.2	93.3%	6.7%	3.3%	2.5%	10.2%	2.5%	5.0%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.2	6.9	61	47
2	4.2	6.8	62	
3	4.4	7.2	62	
Average			62	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South		Date Sampled:	4/8/2021	
Mix Type:	21212415 FIBER 1/2" HMA-A w/25% RAP		Time Sampled:	727am	Load #: 8
Material Source:	CCA Lakeside		Sampled By:	I. Montano	
Sample Location:	Truck Bed at Plant		Date Tested:	4/8/2021	
Ticket #:	1701253823	Tons Out:	146.65	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:	
Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-16 San Joaquin
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2872.0		
Mass of Mixed Sample + Basket, M_1 (g):	4557.2		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1685.2		
Mass of Sample + Basket after burn off, M_2 (g):	4456.8		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1584.8		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.96%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.51%	5.83%	
	% by Total Weight of Mix		% by Dry Weight of Agg
Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay South			Date Sampled:	4/8/2021
Material Description:	Combined RAP			Time Sampled:	605am
Material Source:	CCA Lakeside			Sampled By:	I Montano
Sample Location:	Belt Cut			Date Tested:	4/8/2021
Lot #:		Sublot #:		Tons Out:	20
				Tested By:	I Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3124.5	Dry Weight:	3063.4	RAP Moisture:	2.0%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2879.9	Basket + Sample	4420.8	HMA Sample Mass	1540.9
Basket + Sample Burned	4321.3	Burned Agg Mass	1441.4	Approx. Oil % TWM	5.17

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	29	2.0%	98.0%	+0.2	98.2%
3/8" (9.5mm)	123.5	8.6%	91.4%	+0.6	92.0%
#4 4.75mm)	361.6	25.1%	74.9%	-0.8	74.1%
#8 (2.36mm)	106.5	40.7%	59.3%	+0.5	59.8%
#16 (1.18mm)	194.9	53.7%	46.3%	-0.7	45.6%
#30 (600µm)	269.3	64.6%	35.4%	-0.6	34.8%
#50 (300µm)	347.8	76.1%	23.9%	-0.2	23.7%
#100 (150µm)	408.5	85.0%	15.0%	+0.3	15.3%
#200 (75µm)	444.9	90.3%	9.7%	+0.5	10.2%
Mass of #4 Split	510.9				

Approved By:

Patrick Terrell
 Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay South				Date Sampled:	4/8/2021			
Material Description:	23412305 3/4" HMA-A w/25% RAP				Time Sampled:	530am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/8/2021			
Tons Out:	Load #	Lot #	Sublot #	Tested By:	I. Montano				

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5513.8	Dry Weight:	5443.5	% Moisture:	1.29%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained	Percent Passing	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
3/4" (19mm)	96.5	1.8%	98.2%	73.7%	100.0%	25.0%	99%	98 93-100
1/2" (12.5mm)	1587	29.2%	70.8%	53.1%	98.2%	24.5%	78%	75 69-81
3/8" (9.5mm)	2274	41.8%	58.2%	43.7%	92.0%	23.0%	67%	62
#4 (4.75mm)	3206.1	58.9%	41.1%	30.8%	74.1%	18.5%	49%	46 39-53

Fine Agg Dry Weight:	517.7
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	108.7	21%	79%	32%	24.4%	59.8%	14.9%	39%	34 29-39
#16 (1.18mm)	200.8	39%	61%	25%	18.9%	45.6%	11.4%	30%	25
#30 (600µm)	305.3	59%	41%	17%	12.6%	34.8%	8.7%	21%	17 13-21
#50 (300µm)	401.6	78%	22%	9%	6.9%	23.7%	5.9%	13%	11
#100 (150µm)	451.6	87%	13%	5%	3.9%	15.3%	3.8%	8%	6
#200 (75µm)	475.5	91.8%	8.2%	3.4%	2.5%	10.2%	2.5%	5.1%	4.1 2.1-6.1

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.0	6.5	62	47
2	4.3	6.9	63	
3	4.2	6.8	62	
Average			62	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South	Date Sampled:	4/8/2021		
Mix Type:	23412305 3/4" HMA-A w/25% RAP	Time Sampled:	6:39 AM	Load #:	2
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	4/8/2021		
Ticket #:	1701253811	Tons Out:	38.7	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:	
Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-16 San Joaquin
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.58%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2870.9		
Mass of Mixed Sample + Basket, M_1 (g):	4905.2		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	2034.3		
Mass of Sample + Basket after burn off, M_2 (g):	4790.5		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1919.6		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.64%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.06%	5.33%	
	% by Total Weight of Mix		% by Dry Weight of Agg
Mix Moisture, MC	0		
Target by TWM:	5.03%	Allowable Range	4.58 - 5.48
Target by DWA:	5.30%	Allowable Range	4.80 - 5.80

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II

HMA Physical Properties Worksheet

Client ATP Engineering Contractors

Job No. 200638.2

Project SD County Overlay South

Lab No. W05-21-00775

Sample Location/ID 1/2" HMA 58-34 w/ fiber

Sampled by Jose

Date Sampled 4/8/2021

Tested By BB

Date Tested 4/10/2021

CT 309 Maximum Theoretical Gravity	
Sample Weight	1880.5
Pycnometer + H ₂ O	7356.4
Sample+Pycnometer+H ₂ O	8471.8
Temperature H ₂ O	25.0
Maximum Specific Gravity	2.458

Lab Tested Maximum Density			
Briquette ID	1	2	3
Thickness	2.51	2.52	2.53
Weight in Air	1198.6	1200.2	1200.0
Paraffin Coated Wt	1211.1	1214.2	1214.5
Weight in Water	686.4	686.7	685.7
Vol. cc	510.8	511.9	512.7
Sp. Gr.	2.346	2.344	2.341
PCF	146.0	145.9	145.7
Specific Gravity, (average)			2.344
Weight per cubic foot, (average)			145.9
Air Voids (average), %			4.6

CT 366 Stability						
2000	3000	4000	5000lbs (R)	6000	Turn Dial (T)	Stability
16	22	29	36.0	45	2.66	46
17	24	31	38.0	47	2.71	44
16	23	30	37.0	47	2.63	45
Average Stability						45



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-01346-01

Date of Issue: 04/08/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123	Project No: 200638.2
Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA	Permit No: OSHPD: DSA File #: DSA AP #:

Distribution:	
Jurisdiction: County of San Diego	Approved Signatory: Andrew Suarez

Test Date: Tuesday, April 6, 2021	Inspector: Jose Franco-Casas	
Inspection No.:		
Contractor: ATP General Engineering		
Equipment Obsv.: a) 2-Mechanical brooms, b) Bear Cat CRC distributor truck, c) Cat paver, d) Cat CB54B duals mooth drums vibratory compactor, e) Cat CB7 vibratory compactor, f) Dynapac CC4200 VI vibratory compactor, g) Water truck, h) Deere 210L skip loader.		
Time Arrived: 7:00 AM	Time Departed: 2:30 PM	Time on Site: 7.5 Hrs
Lunch Start: 11:15 AM	Lunch End: 11:45 AM	Travel Time: 2 Hrs
Mileage:	Weather: Sunny	

Types of Testing / Observations
Asphalt - Field Density Testing

Referenced Documents
HMA ID's: 21212415F- 1/2" HMA 58-34M W/fiber and 21212415- 1/2" HMA Type A 58-34M.

Observations / Remarks
<p>*****Regular: _8.0_ OT: _1.0_ DT: ___ Reason for Travel: _Transport of CPN nuclear gauge, AC gear and AC samples. _ Miles to Jobsite: ___ Miles from Jobsite: ___ Travel to Jobsite (start): _6:00am_ Travel to Jobsite (end): _7:00am_ Travel from Jobsite (start): _2:30pm_ Travel from Jobsite (end): _3:30pm_ Expenses: _____ Equipment Used: _CPN nuclear gauge and AC gear. _____ *****</p> <p>ASPHALT - FIELD DENSITY TESTING</p> <p>Picked up the density gauge, AC gear and truck from the San Diego office.</p> <p>On site as requested to provide AC density test for the 2" overlay on Skyline Truck Trail, approx between House No. 16001 to House No 16700. Upon arrival met ATP foreman Looney to discuss the scope of work for today, contractor started placing the Asphalt Concrete Mix ID 21212415F- 1/2" HMA 58-34M W/fiber and then switch for the HMA 21212415- 1/2" HMA Type A 58-34M. These HMA was produced at CCA-Lakeside Plant.</p> <p>Observe 2-Mechanical brooms swept each road prior to the tack coat application.</p> <p>Asphalt concrete placement with a Cat paver, initial breakdown performed with a Cat CB54B dual drums vibratory compactor, intermediate rolling performed with a Cat CB7 smooth drums roller and final rolling with a Dynapac CC4200 VI vibratory compactor. HMA temperature at/above 300°F.</p> <p>Sampled the HMA ID 21212415F, as follows: Load No, Time 8:50am, Truck No SD189, Ticket No 170125, AC temperature was 300°F, at 319.89 tons. Cast 12 boxes with asphalt concrete, 8 boxes for the County and 4 boxes for Twining, this sample was transported to Twining for testing.</p> <p>Conducted 34 AC compaction test using a CPN MC-1DR-P Portaprobe nuclear gauge, these AC density test meet 95% County requirements, ATP personnel was notified.</p> <p>Today's asphalt concrete production was approximately 640 tons of the Mix ID 21212415F and</p>



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-01346-O1


Date of Issue: 04/08/2021

Issue No: 1

<p>Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123</p> <p>Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA</p>	<p>Project No: 200638.2</p> <p>Permit No:</p> <p>OSHPD:</p> <p>DSA File #:</p> <p>DSA AP #:</p>
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<p>Distribution:</p> <p>Jurisdiction: County of San Diego</p>	 <p>Approved Signatory: Andrew Suarez</p>
------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------

All inspections based on minimum of 4 hours and over 4 hours - 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.



Jose Franco-Casas, Inspector/Technician

Remarks:

This report will be distributed to architect, engineer, client, and governing jurisdiction (e.g. DSA) as required by applicable codes and project documents.

Certificate of Compliance		
<p>The Work <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not inspected in accordance with the requirements of the County of San Diego approved documents</p>	<p>The Work Inspected <input checked="" type="checkbox"/> Met <input type="checkbox"/> Did Not Meet the requirements of the County of San Diego approved documents</p>	<p>The Material Sampling <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not performed in accordance with the requirements of the County of San Diego approved documents</p>

All Reports Remain The Property of Twining, Inc. Authorization For The Publication Of Our Reports, Conclusions, Or Extracts From Or Regarding Them is Reserved Pending Our Written Approval As A Mutual Protection To Clients, The Public and Ourselves



Daily Field Report

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123

Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Jurisdiction: County of San Diego
Distribution:

Twining, Inc. - San Diego Lab
15950 Bernardo Center Drive, Suite H
San Diego, CA 92127
Ph: 858-974-3750
Fax: 562.426.6424

Report No: DFR:W02-21-01346-O1
Date of Issue: 4/8/2021 Issue No: 1

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Andrew Suarez

Approved Signatory: Andrew Suarez (Branch Manager)

CCCA
CALIFORNIA COMMERCIAL ASPHALT
HEIDELBERGCEMENT Group
WEIGHMASTER STATION

4433000
12451 Vigilante Rd
Lakeside, Ca 92040

San Diego County Overlay-South
South County

Product: 21212415F
Description: 1/2" HMA 58-34M w/Fiber Environmental Fee

SCALE WEIGHT: 61,660 LB
Gross: 25,040 LB/P.T.
Tare: 36,620 LB
Net:

GROSS & TARE
Drivers Always On Driver Off
Scale 1 Scale 2 Scale 3
Scales Scales Scales
Daily WEIGHS
Deputy Weighmaster:

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture

San Diego County (Customer)
Print Name (Customer)

Arrive Job Start Unloading Finish Unloading Standing Time Customer's Initials

Received By Signature

Driver's Signature

Customer's Initials

Standing Time This Ticket's Grand Total

San Diego County Overlay-South
South County

CCCA
CALIFORNIA COMMERCIAL ASPHALT
HEIDELBERGCEMENT Group

Ticket No: 1701253642
Customer Job No: 4433000
Truck Type: T
Weight No: 9
Today's Job No: 9
Load No: 17
Zone: 17

Customer Job No: 4433000
Customer Job No: 4433000
Truck Type: T
Weight No: 9
Today's Job No: 9
Load No: 17
Zone: 17

Vehicle's Registration Plate No. 5R220
Trailer or License Plate No. 5R220

Map Ref: 17
Trailer or License Plate No. 5R220

Order No: 14-8

DATE: 4/8/2021
TIME LOADED: 7:45:32 AM
TIME: 7:45:32 AM

Unit Price: 18.31
Amount: 18.31

Carriage
Sales Tax
Total

Standing Time
This Ticket's Grand Total

MIRAMAR
HOT MIX ASPHALT, SEAL, EMULSION,
RECYCLING, COLD MIX & EZ STREET
9229 Harris Plant Rd.
San Diego, CA 92145

LAKE ELSINORE
HOT MIX ASPHALT,
RECYCLING & EZ STREET
10000 Nichols Rd.
Lake Elsinore, CA 92532

COACHELLA



Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424


Asphalt Nuclear Density Report

Report No: ND:W02-21-01346
 Date of Issue: 4/8/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Testing Details

Tested By: Jose Franco-Casas **Date Tested:** 4/6/2021
Plant: Lakeside **Gauge Make/Model:**
Method of Measurement: Backscatter **Density Standard Count:** 36381
Gauge Serial: **Moisture Standard Count:** 8339
Calibration Date: **Weather:** Sunny
Calibration Source:

Test Results

ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft ³)	In Situ Density (lb/ft ³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Jamul, Ca.													
1	16001A Skyline Truck Trail	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	137.70	95	≥95	P
2	16001B Skyline Truck Trail	NA	6.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	139.00	96	≥95	P
3	Skyline Truck Trail	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	139.60	96	≥95	P
4	Skyline Truck Trail	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	137.40	95	≥95	P
5	Skyline Truck Trail	NA	6.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	140.70	97	≥95	P
6	Skyline Truck Trail	NA	6.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	138.30	95	≥95	P
7	Skyline Truck Trail	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	140.50	97	≥95	P

Remarks:



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 Ph: 858-974-3750
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Asphalt Nuclear Density Report

Report No: ND:W02-21-01346
 Date of Issue: 4/8/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Jamul, Ca.													
8	16232A Skyline Truck Trail	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	141.20	97	≥95	P
9	16232B Skyline Truck Trail	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	138.80	96	≥95	P
10	16232C Skyline Truck Trail	NA	6.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	139.00	96	≥95	P
11	16232D Skyline Truck Trail	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	139.80	96	≥95	P
12	16232E Skyline Truck Trail	NA	6.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	140.10	96	≥95	P
13	Skyline Truck Trail	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	138.20	95	≥95	P
14	Skyline Truck Trail	NA	6.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	138.80	96	≥95	P
15	Skyline Truck Trail	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	140.30	97	≥95	P
16	Skyline Truck Trail				21212415F 1/2" HMA 58-34M w/fiber	1	2.0	1 min.	145.30	138.10	95	≥95	P

Remarks:



Asphalt Nuclear Density Report


Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424

Report No: ND:W02-21-01346
 Date of Issue: 4/8/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHDP:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Jamul, Ca.													
17	16390B Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	138.80	96	≥95	P
18	16390C Skyline Truck Trail	NA	8.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	139.50	96	≥95	P
19	Skyline Truck Trail	NA	10.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	138.90	96	≥95	P
20	Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	138.40	95	≥95	P
21	Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	137.40	95	≥95	P
22	Skyline Truck Trail	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	138.10	95	≥95	P
23	Skyline Truck Trail	NA	8.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	137.80	95	≥95	P
24	Skyline Truck Trail	NA	8.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	138.20	95	≥95	P
25	Skyline Truck Trail	NA	8.0	Centerline	21212415 1/2" HMA 58-34M	1	2.0	1 min.	145.30	137.50	95	≥95	P
26	Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	140.90	97	≥95	P
27	Skyline Truck Trail	NA	8.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	140.10	96	≥95	P
28	Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	139.00	96	≥95	P

Remarks:



Asphalt Nuclear Density Report

Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424

Report No: ND:W02-21-01346
 Date of Issue: 4/8/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Jamul, Ca.													
29	Skyline Truck Trail	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	141.40	97	≥95	P
30	Skyline Truck Trail	NA	8.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	138.20	95	≥95	P
31	16652 Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	138.40	95	≥95	P
32	16660A Skyline Truck Trail	NA	6.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	139.20	96	≥95	P
33	16660B Skyline Truck Trail	NA	4.0	Centerline	21212415 1/2" HMA 58-34M Type A	1	2.0	1 min.	145.30	140.20	96	≥95	P

Remarks:

SUMMARY OF TESTING



CONTRACTOR NAME, ADDRESS, AND PHONE NUMBER ATP General Engineering 4211 Ponderosa Ave San Diego, CA 92123 Hassan Bitar/Greg Johnson 619-530-8541 ACO South	SAMPLE DATE	4/6/2021		
	FIELD NUMBER	21212415 FIBER 4-6-2021		
	TEST NUMBER	Lot 1 SL 1		
	HMA TYPE	1/2" HMA-A; PG 58-34PM		
	SAMPLE INFORMATION	Lot 1 SL 1		

This form must be submitted with all daily testing reports. Circle all test results that are not within the Action Limits. Use additional sheets as necessary.

Quality Characteristic		Test Result Sublot Number	Test Result Sublot Number	Test Result Sublot Number	Test Result Sublot Number	LSL	Target Value	USL
		SL 1	---	---	-			
Aggregate gradation (% passing, report to tenth)								
% Passing	Sieve Size							
	2"	100				100	100	100
	1 1/2"	100				100	100	100
	1"	100				100	100	100
	3/4"	100				100	100	100
	1/2"	94				91	96	100
	3/8"	77				71	77	83
	No. 4	55				48	55	62
	No. 8	44				38	43	48
	No. 16	34					33	
	No. 30	24				17	22	25
	No. 50	13					13	
	No. 100	8					7	
	No. 200	5.3				2.4	4.4	6.4
Sand Equivalent	CTM 217	63				50		Min
HMA Moisture Content (%)	CTM 382	0.0				0		1.0
Aggregate Moisture	CTM 226	1.81				Report Only		

TEST PROPERTY	A	B	C	AVG.			Target Values/Tolerances			
Asphalt binder content (%TWM)	CTM 382			5.46				5.09	5.39	5.89
RAP AC %	CTM 382			5.23				2.70	4.70	6.70
RAP Moisture	CTM 370			1.70				Report Only		
Hveem Stability	CTM 366			46				37		
Briquette Sp. Gr.	2.361	2.349	2.357	2.356				N/A		
Theoretical Max Density	CT 309			2.452				Report Only		
Air Voids (%)	3.7	4.2	3.9	3.9				2.5	4	5.5



HMA Physical Properties Worksheet

Client ATP Engineering Contractors

Job No. 200638.2

Project SD County Overlay South

Lab No. W05-21-00752

Sample Location/ID 1/2" HMA 58-34 w/ fiber

Sampled by Jose

Date Sampled 4/6/2021

Tested By BB

Date Tested 4/7/2021

CT 309 Maximum Theoretical Gravity	
Sample Weight	1698.5
Pycnometer + H ₂ O	7356.4
Sample+Pycnometer+H ₂ O	8362.2
Temperature H ₂ O	25.0
Maximum Specific Gravity	2.452

Lab Tested Maximum Density			
Briquette ID	1	2	3
Thickness	2.54	2.59	2.60
Weight in Air	1200.5	1221.0	1220.4
Paraffin Coated Wt	1208.8	1231.1	1230.8
Weight in Water	691.1	700.1	701.4
Vol. cc	508.5	519.8	517.8
Sp. Gr.	2.361	2.349	2.357
PCF	146.9	146.2	146.7
Specific Gravity, (average)			2.356
Weight per cubic foot, (average)			146.6
Air Voids (average), %			3.9

CT 366 Stability						
2000	3000	4000	5000lbs (R)	6000	Turn Dial (T)	Stability
14	20	28	36.0	48	2.56	47
15	21	30	38.0	53	2.60	45
15	22	31	38.0	55	2.58	45
Average Stability						46



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay South		Date Sampled:	4/6/2021	
Material Description:	Combined RAP		Time Sampled:	530am	
Material Source:	CCA Lakeside		Sampled By:	I. Montano	
Sample Location:	Belt Cut		Date Tested:	4/6/2021	
Lot #:		Sublot #:		Tons Out:	
				Tested By:	I. Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3109.7	Dry Weight:	3058.2	RAP Moisture:	1.7%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2871.7	Basket + Sample	4385.2	HMA Sample Mass	1513.5
Basket + Sample Burned	4286.2	Burned Agg Mass	1414.5	Approx. Oil % TWM	5.23

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	18.8	1.3%	98.7%	+0.2	98.9%
3/8" (9.5mm)	112.4	7.9%	92.1%	+0.6	92.7%
#4 (4.75mm)	394.8	27.9%	72.1%	-0.8	71.3%
#8 (2.36mm)	122.6	45.4%	54.6%	+0.5	55.1%
#16 (1.18mm)	212.4	58.3%	41.7%	-0.7	41.0%
#30 (600µm)	284.5	68.6%	31.4%	-0.6	30.8%
#50 (300µm)	356.3	78.8%	21.2%	-0.2	21.0%
#100 (150µm)	408	86.2%	13.8%	+0.3	14.1%
#200 (75µm)	439.1	90.7%	9.3%	+0.5	9.8%
Mass of #4 Split	504.3				

Approved By:

Patrick Terrell
 Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay South				Date Sampled:	4/6/2021			
Material Description:	21212415 1/2" HMA-A w/25% RAP				Time Sampled:	900am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/6/2021			
Tons Out:	Load #	Lot #	Sublot #	Tested By:	I. Montano				

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5382.1	Dry Weight:	5279.3	% Moisture:	1.95%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	410.2	7.8%	92.2%	69.2%	98.9%	24.7%	94%	96 90-100
3/8" (9.5mm)	1479.6	28.0%	72.0%	54.0%	92.7%	23.2%	77%	77 71-83
#4 (4.75mm)	2683.7	50.8%	49.2%	36.9%	71.3%	17.8%	55%	55 48-62

Fine Agg Dry Weight:	509.2
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	100.3	20%	80%	39%	29.6%	55.1%	13.8%	43%	43 38-48
#16 (1.18mm)	178	35%	65%	32%	24.0%	41.0%	10.3%	34%	33
#30 (600µm)	288.3	57%	43%	21%	16.0%	30.8%	7.7%	24%	22 17-25
#50 (300µm)	386.1	76%	24%	12%	8.9%	21.0%	5.2%	14%	13
#100 (150µm)	445.2	87%	13%	6%	4.6%	14.1%	3.5%	8%	7
#200 (75µm)	467.1	91.7%	8.3%	4.1%	3.0%	9.8%	2.5%	5.5%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.2	6.5	65	47
2	4.3	6.7	65	
3	4.4	6.9	64	
Average			65	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South		Date Sampled:	4/6/2021	
Mix Type:	21212415 1/2" HMA-A w/25% RAP		Time Sampled:	955am	Load #: 8
Material Source:	CCA Lakeside		Sampled By:	I. Montano	
Sample Location:	Truck Bed at Plant		Date Tested:	4/6/2021	
Ticket #:	1701253668	Tons Out:	149.03	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209		
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C	<input type="checkbox"/> 482°C	<input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes		
Asphalt Binder type and source:	PG 58-34 Holly Frontier		
Aggregate Source:	Hanson Aggregates, Vigilante Mine		
Correction Factor, CF (%):	0.45%		

Ignition Oven Procedure

Mass of Basket, M_e (g):	2879.5		
Mass of Mixed Sample + Basket, M_1 (g):	4444.2		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1564.7		
Mass of Sample + Basket after burn off, M_2 (g):	4354.9		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1475.4		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.71%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.26%	5.55%	
	% by Total Weight of Mix		% by Dry Weight of Agg
Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay South		Date Sampled:	4/6/2021	
Material Description:	Combined RAP		Time Sampled:	530am	
Material Source:	CCA Lakeside		Sampled By:	I. Montano	
Sample Location:	Belt Cut		Date Tested:	4/6/2021	
Lot #:		Sublot #:	Tons Out:	Tested By:	I. Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3109.7	Dry Weight:	3058.2	RAP Moisture:	1.7%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2871.7	Basket + Sample	4385.2	HMA Sample Mass	1513.5
Basket + Sample Burned	4286.2	Burned Agg Mass	1414.5	Approx. Oil % TWM	5.23

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	18.8	1.3%	98.7%	+0.2	98.9%
3/8" (9.5mm)	112.4	7.9%	92.1%	+0.6	92.7%
#4 4.75mm)	394.8	27.9%	72.1%	-0.8	71.3%
#8 (2.36mm)	122.6	45.4%	54.6%	+0.5	55.1%
#16 (1.18mm)	212.4	58.3%	41.7%	-0.7	41.0%
#30 (600µm)	284.5	68.6%	31.4%	-0.6	30.8%
#50 (300µm)	356.3	78.8%	21.2%	-0.2	21.0%
#100 (150µm)	408	86.2%	13.8%	+0.3	14.1%
#200 (75µm)	439.1	90.7%	9.3%	+0.5	9.8%
Mass of #4 Split	504.3				

Approved By:

Patrick Terrell
 Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay South				Date Sampled:	4/6/2021			
Material Description:	21212415 1/2" HMA-A w/25% RAP				Time Sampled:	535am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/6/2021			
Tons Out:	Load #	Lot #	Sublot #	Tested By:	I. Montano				

SIEVE ANALYSIS (CTM 202)

Wet Weight:	6782.5	Dry Weight:	6661.7	% Moisture:	1.81%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	468.4	7.0%	93.0%	69.7%	98.9%	24.7%	94%	96 90-100
3/8" (9.5mm)	1836.3	27.6%	72.4%	54.3%	92.7%	23.2%	77%	77 71-83
#4 (4.75mm)	3371.7	50.6%	49.4%	37.0%	71.3%	17.8%	55%	55 48-62

Fine Agg Dry Weight:	516.3
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	94	18%	82%	40%	30.3%	55.1%	13.8%	44%	43 38-48
#16 (1.18mm)	183.6	36%	64%	32%	23.9%	41.0%	10.3%	34%	33
#30 (600µm)	295.4	57%	43%	21%	15.8%	30.8%	7.7%	24%	22 17-25
#50 (300µm)	402.2	78%	22%	11%	8.2%	21.0%	5.2%	13%	13
#100 (150µm)	455.0	88%	12%	6%	4.4%	14.1%	3.5%	8%	7
#200 (75µm)	476.8	92.3%	7.7%	3.8%	2.8%	9.8%	2.5%	5.3%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.0	6.5	62	47
2	4.1	6.5	63	
3	4.3	6.9	63	
Average			63	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South		Date Sampled:	4/6/2021	
Mix Type:	21212415 1/2" HMA-A w/25% RAP		Time Sampled:	700am	Load #: 6
Material Source:	CCA Lakeside		Sampled By:	I. Montano	
Sample Location:	Truck Bed at Plant		Date Tested:	4/6/2021	
Ticket #:	1701253629	Tons Out:	116.24	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209		
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C	<input type="checkbox"/> 482°C	<input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes		
Asphalt Binder type and source:	PG 58-16 San Joaquin		
Aggregate Source:	Hanson Aggregates, Vigilante Mine		
Correction Factor, CF (%):	0.45%		

Ignition Oven Procedure

Mass of Basket, M_e (g):	2880.3		
Mass of Mixed Sample + Basket, M_1 (g):	4431.0		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1550.7		
Mass of Sample + Basket after burn off, M_2 (g):	4339.4		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1459.1		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.91%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.46%	5.77%	
	% by Total Weight of Mix		% by Dry Weight of Agg
Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II

**Twining, Inc. - San Diego Lab**

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report**Report No: DFR:W02-21-01370-01**

Date of Issue: 04/08/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123	Project No: 200638.2
Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA	Permit No: OSHPD: DSA File #: DSA AP #:

Distribution:	
Jurisdiction: County of San Diego	Approved Signatory: Andrew Suarez

Test Date: Wednesday, April 7, 2021	Inspector: Jose Franco-Casas	
Inspection No.:		
Contractor: ATP General Engineering		
Equipment Obsv.: a) 2-Mechanical brooms, b) Bear Cat CRC distributor truck, c) Cat paver, d) Cat CB54B dual smooth drums vibratory compactor, e) Cat CB7 vibratory compactor, f) Dynapac CC4200 VI vibratory compactor, g) Cat CB44B vibratory compactor, f) Deere 210L skip loader, g) Water truck.		
Time Arrived: 7:00 AM	Time Departed: 3:00 PM	Time on Site: 8 Hrs
Lunch Start: 11:15 AM	Lunch End: 11:45 AM	Travel Time: 2 Hrs
Mileage: 90.0	Weather: Sunny	

Types of Testing / Observations
Asphalt - Field Density Testing

Referenced Documents

Observations / Remarks
<p>*****Regular: _8.0__ OT: _1.5__ DT: ___ Reason for Travel: _Transport of CPN nuclear gauge, AC gear.__ Miles to Jobsite: _45__ Miles from Jobsite: _45__ Travel to Jobsite (start): _6:00am__ Travel to Jobsite (end): _7:00am__ Travel from Jobsite (start): _3:00pm__ Travel from Jobsite (end): _4:00pm__ Expenses: _____ Equipment Used: _CPN nuclear gauge. _____ *****</p> <p>ASPHALT - FIELD DENSITY TESTING</p> <p>Picked up the density gauge, AC gear and truck from the San Diego office.</p> <p>Upon arrival met ATP foreman Looney to discuss the scope of work for today. Contractor continued the placement of 2" overlay asphalt concrete, ATP utilized the following HMA mixtures ID: 21212415F- 1/2" HMA 58-34M w/Fiber and the mix 21212415- 1/2" HMA 58-34M Type A, both mixture imported from CCA-Lakeside Plant. This asphalt concrete was placed on Skyline Truck Trail at East bound, approximately between Post Mile 2 and Post Mile 3.</p> <p>Observe a mechanical broom sweeping the road prior tack coat application.</p> <p>Asphalt concrete placement with a Cat paver, initial breakdown performed with a Cat CB54B dual smooth drums vibratory compactor, intermediate rolling with a Cat CB7 vibratory roller and final rolling with a Dynapac CC4200 VI vibratory compactor and a Cat CB44B vibratory roller.</p> <p>Conducted 34 AC density test using a CPN MC-1DR-P Portaprobe nuclear gauge, these compaction test meet 95% County requirements, ATP representative was notified.</p> <p>Today asphalt concrete production was approximately as follows: a) Mix 21212415F 634.31 tons and Mix 21212415 615.34 tons.</p>



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-01370-O1


Date of Issue: 04/08/2021

Issue No: 1

<p>Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123</p> <p>Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA</p>	<p>Project No: 200638.2</p> <p>Permit No:</p> <p>OSHPD:</p> <p>DSA File #:</p> <p>DSA AP #:</p>
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<p>Distribution:</p> <p>Jurisdiction: County of San Diego</p>	 <p>Approved Signatory: Andrew Suarez</p>
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All inspections based on minimum of 4 hours and over 4 hours - 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.



Jose Franco-Casas, Inspector/Technician

Remarks:

This report will be distributed to architect, engineer, client, and governing jurisdiction (e.g. DSA) as required by applicable codes and project documents.

Certificate of Compliance		
<p>The Work <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not inspected in accordance with the requirements of the County of San Diego approved documents</p>	<p>The Work Inspected <input checked="" type="checkbox"/> Met <input type="checkbox"/> Did Not Meet the requirements of the County of San Diego approved documents</p>	<p>Material Sampling was not performed</p>

All Reports Remain The Property of Twining, Inc. Authorization For The Publication Of Our Reports, Conclusions, Or Extracts From Or Regarding Them is Reserved Pending Our Written Approval As A Mutual Protection To Clients, The Public and Ourselves



Daily Field Report


Twining, Inc. - San Diego Lab
15950 Bernardo Center Drive, Suite H
San Diego, CA 92127
Ph: 858-974-3750
Fax: 562.426.6424

Report No: DFR:W02-21-01370-O1
Date of Issue: 4/8/2021 **Issue No: 1**

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


Approved Signatory: Andrew Suarez (Branch Manager)





Daily Field Report

Twining, Inc. - San Diego Lab
15950 Bernardo Center Drive, Suite H
San Diego, CA 92127
Ph: 858-974-3750
Fax: 562.426.6424

Report No: DFR:W02-21-01370-O1
Date of Issue: 4/8/2021 **Issue No: 1**

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


Approved Signatory: Andrew Suarez (Branch Manager)





Daily Field Report

Twining, Inc. - San Diego Lab
15950 Bernardo Center Drive, Suite H
San Diego, CA 92127
Ph: 858-974-3750
Fax: 562.426.6424

Report No: DFR:W02-21-01370-O1
Date of Issue: 4/8/2021 **Issue No: 1**

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


Approved Signatory: Andrew Suarez (Branch Manager)





Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay South		Date Sampled:	4/7/2021
Material Description:	Combined RAP		Time Sampled:	600am
Material Source:	CCA Lakeside		Sampled By:	I. Montano
Sample Location:	Belt Cut		Date Tested:	4/7/2021
Lot #:		Sublot #:	Tons Out:	Tested By: I. Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3200.4	Dry Weight:	3138.7	RAP Moisture:	2.0%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2879.9	Basket + Sample	4433.4	HMA Sample Mass	1553.5
Basket + Sample Burned	4330.3	Burned Agg Mass	1450.4	Approx. Oil % TWM	5.31

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	10.2	0.7%	99.3%	+0.2	99.5%
3/8" (9.5mm)	90.8	6.3%	93.7%	+0.6	94.3%
#4 (4.75mm)	369.2	25.5%	74.5%	-0.8	73.7%
#8 (2.36mm)	107.8	41.3%	58.7%	+0.5	59.2%
#16 (1.18mm)	195.5	54.3%	45.7%	-0.7	45.0%
#30 (600µm)	271.4	65.4%	34.6%	-0.6	34.0%
#50 (300µm)	348.4	76.8%	23.2%	-0.2	23.0%
#100 (150µm)	405.6	85.2%	14.8%	+0.3	15.1%
#200 (75µm)	440.1	90.3%	9.7%	+0.5	10.2%
Mass of #4 Split	505.9				

Approved By:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South				Date Sampled:	4/7/2021			
Material Description:	21212305 1/2" HMA-A w/25% RAP				Time Sampled:	800am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/7/2021			
Tons Out:	Load #	Lot #	Sublot #	Tested By:	I. Montano				

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5483.2	Dry Weight:	5388.0	% Moisture:	1.77%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	443.1	8.2%	91.8%	68.8%	99.5%	24.9%	94%	96 90-100
3/8" (9.5mm)	1509.2	28.0%	72.0%	54.0%	94.3%	23.6%	78%	77 71-83
#4 (4.75mm)	2679.5	49.7%	50.3%	37.7%	73.7%	18.4%	56%	55 48-62

Fine Agg Dry Weight:	514.4
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	104.2	20%	80%	40%	30.1%	59.2%	14.8%	45%	43 38-48
#16 (1.18mm)	188.9	37%	63%	32%	23.9%	45.0%	11.3%	35%	33
#30 (600µm)	302.2	59%	41%	21%	15.6%	34.0%	8.5%	24%	22 17-25
#50 (300µm)	400.8	78%	22%	11%	8.3%	23.0%	5.8%	14%	13
#100 (150µm)	453.8	88%	12%	6%	4.4%	15.1%	3.8%	8%	7
#200 (75µm)	476.7	92.7%	7.3%	3.7%	2.8%	10.2%	2.5%	5.3%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.0	6.4	63	47
2	4.3	6.8	64	
3	4.1	6.5	63	
Average			63	

Approved by:



Patrick Terrell
Quality Control Manager II

Project:	San Diego County Overlay South	Date Sampled:	4/7/2021		
Mix Type:	21212305 1/2" HMA-A w/25% RAP	Time Sampled:	929am	Load #:	2
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	4/7/2021		
Ticket #:	1701253745	Tons Out:	38.74	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-16 San Joaquin
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2880.0		
Mass of Mixed Sample + Basket, M_1 (g):	4404.0		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1524.0		
Mass of Sample + Basket after burn off, M_2 (g):	4318.4		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1438.4		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.62%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.17%	5.45%	
	% by Total Weight of Mix		% by Dry Weight of Agg
Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay South		Date Sampled:	4/7/2021
Material Description:	Combined RAP		Time Sampled:	600am
Material Source:	CCA Lakeside		Sampled By:	I. Montano
Sample Location:	Belt Cut		Date Tested:	4/7/2021
Lot #:		Sublot #:	Tons Out:	Tested By: I. Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3200.4	Dry Weight:	3138.7	RAP Moisture:	2.0%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2879.9	Basket + Sample	4433.4	HMA Sample Mass	1553.5
Basket + Sample Burned	4330.3	Burned Agg Mass	1450.4	Approx. Oil % TWM	5.31

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	10.2	0.7%	99.3%	+0.2	99.5%
3/8" (9.5mm)	90.8	6.3%	93.7%	+0.6	94.3%
#4 (4.75mm)	369.2	25.5%	74.5%	-0.8	73.7%
#8 (2.36mm)	107.8	41.3%	58.7%	+0.5	59.2%
#16 (1.18mm)	195.5	54.3%	45.7%	-0.7	45.0%
#30 (600µm)	271.4	65.4%	34.6%	-0.6	34.0%
#50 (300µm)	348.4	76.8%	23.2%	-0.2	23.0%
#100 (150µm)	405.6	85.2%	14.8%	+0.3	15.1%
#200 (75µm)	440.1	90.3%	9.7%	+0.5	10.2%
Mass of #4 Split	505.9				

Approved By:

Patrick Terrell
 Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay South				Date Sampled:	4/7/2021			
Material Description:	21212415 1/2" HMA-A w/25% RAP				Time Sampled:	555am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/7/2021			
Tons Out:	Load #	Lot #	Sublot #	Tested By:	I. Montano				

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5498.7	Dry Weight:	5406.3	% Moisture:	1.71%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	513.5	9.5%	90.5%	67.9%	99.5%	24.9%	93%	96 90-100
3/8" (9.5mm)	1473.7	27.3%	72.7%	54.6%	94.3%	23.6%	78%	77 71-83
#4 (4.75mm)	2804	51.9%	48.1%	36.1%	73.7%	18.4%	55%	55 48-62

Fine Agg Dry Weight:	521.3
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	99.7	19%	81%	39%	29.2%	59.2%	14.8%	44%	43 38-48
#16 (1.18mm)	196	38%	62%	30%	22.5%	45.0%	11.3%	34%	33
#30 (600µm)	312.9	60%	40%	19%	14.4%	34.0%	8.5%	23%	22 17-25
#50 (300µm)	418	80%	20%	10%	7.2%	23.0%	5.8%	13%	13
#100 (150µm)	467.1	90%	10%	5%	3.8%	15.1%	3.8%	8%	7
#200 (75µm)	487.1	93.4%	6.6%	3.2%	2.4%	10.2%	2.5%	4.9%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.2	6.5	65	47
2	4.4	7.0	63	
3	4.2	6.6	64	
Average			64	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South			Date Sampled:	4/7/2021		
Mix Type:	21212415F 1/2" HMA-A w/25% RAP			Time Sampled:	702am	Load #:	7
Material Source:	CCA Lakeside			Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant			Date Tested:	4/7/2021		
Ticket #:	1701253709	Tons Out:	131.84	Tested By:	I. Montano		

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209		
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C	<input type="checkbox"/> 482°C	<input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes		
Asphalt Binder type and source:	PG 58-34 Holly		
Aggregate Source:	Hanson Aggregates, Vigilante Mine		
Correction Factor, CF (%):	0.45%		

Ignition Oven Procedure

Mass of Basket, M_e (g):	2880.3		
Mass of Mixed Sample + Basket, M_1 (g):	4441.9		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1561.6		
Mass of Sample + Basket after burn off, M_2 (g):	4349.9		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1469.6		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.89%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.44%	5.75%	
	% by Total Weight of Mix		% by Dry Weight of Agg
Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
ASPHALT CONCRETE DAILY TEST SUMMARY REPORT

Project Name: Asphalt Concrete Overlay South FY 19/20 W.A. #: 1023466
 Sample Date: 4/6/2021 Plant: CCA-LS Lab. No.: 21-291
 HMA Mix: 1/2" type A Percent Oil: 5.4 Oil Type: PG58-34M w/Fiber
 Sample Location: Skyline Truck trail Mix ID #: _____

AGGREGATES MATERIALS					ASPHALT CONCRETE			
A. <u>Grading After Extraction (CT 202)</u>					B. <u>Oil Content (CT 382)</u>			
Sample Weight: <u>not tested</u>					Percent Oil: <u>5.70</u>			
SIZE SIEVE	CUMULATIVE			SPEC'S.	C. <u>Bulk Specific Gravity (CT308)</u>			
	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING		Ave. Bulk Sp. Gravity: <u>2.353</u>			
1"	0	0	0	0	D. <u>Maximum Specific Gravity (CT309)</u>			
1/2"	0	0	0	0	Max. Sp. Gravity: <u>2.439</u>			
3/8"	0	0	0	0	E. <u>Air Voids</u>			
#4	0	0	0	0	Percent Air Voids <u>3.5</u>			
#8	0	0	0	0	F. <u>Stabilometer Value (CT 366)</u>			
#16	0	0	0	0	Sample	A	B	C
#30	0	0	0	0	Sample ht.	2.50	2.50	2.50
#50	0	0	0	0	Hor. Press.	48	50	42
#100	0	0	0	0	Hor. Displ.	2.76	2.88	3.11
#200	0	0	0	0	Stability	37	36	38
Remarks:					Ave. Stability: <u>37</u> Spec's: <u>37</u>			

Form 23 (Rev. 7/20)

Prepared By: R. Valles

Date: 4/8/2021

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
ASPHALT CONCRETE DAILY TEST SUMMARY REPORT

Project Name: Asphalt Concrete Overlay South FY 19/20 W.A. #: 1023466
 Sample Date: 4/8/2021 Plant: CCA-LS Lab. No.: 21-302
 HMA Mix: 1/2" type A Percent Oil: 5.4 Oil Type: PG58-34M
 Sample Location: Skyline Truck trail Mix ID #: _____

AGGREGATES MATERIALS					ASPHALT CONCRETE			
A. <u>Grading After Extraction (CT 202)</u>					B. <u>Oil Content (CT 382)</u>			
Sample Weight: <u>not tested</u>					Percent Oil: <u>5.50</u>			
SIZE SIEVE	CUMULATIVE			SPEC'S.	C. <u>Bulk Specific Gravity (CT308)</u>			
	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING		Ave. Bulk Sp. Gravity: <u>2.363</u>			
1"	0	0	0	0	D. <u>Maximum Specific Gravity (CT309)</u>			
1/2"	0	0	0	0	Max. Sp. Gravity: <u>2.452</u>			
3/8"	0	0	0	0	E. <u>Air Voids</u>			
#4	0	0	0	0	Percent Air Voids <u>3.6</u>			
#8	0	0	0	0	F. <u>Stabilometer Value (CT 366)</u>			
#16	0	0	0	0	Sample	A	B	C
#30	0	0	0	0	Sample ht.	2.50	2.50	2.52
#50	0	0	0	0	Hor. Press.	43	48	46
#100	0	0	0	0	Hor. Displ.	2.61	2.58	2.65
#200	0	0	0	0	Stability	41	39	39
Remarks:					Ave. Stability: <u>40</u> Spec's: <u>37</u>			

Form 23 (Rev. 7/20)

Prepared By: R. Valles

Date: 4/13/2021

Location 3



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-01771-O1

Date of Issue: 05/07/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123 Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA	Project No: 200638.2 Permit No: OSHPD: DSA File #: DSA AP #:
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

Distribution: Jurisdiction: County of San Diego	 Approved Signatory: Andrew Suarez
--------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------

Test Date: Tuesday, May 4, 2021	Inspector: Jose Franco-Casas
Inspection No.:	
Contractor: ATP General Engineering	
Equipment Obsv.: a) Bear Cat CRC distributor truck, b) Cat paver, c) Cat CB44B smooth drums vibratory compactor, d) Dynapac CC1200 vibratory roller, e) Cat CB7 smooth drums vibratory roller, f) Deere 210K skip loader, g)	
Time Arrived: 7:15 AM	Time Departed: 3:45 PM
Lunch Start: 11:15 AM	Lunch End: 11:45 AM
Mileage: 62.0	Weather: Sunny
Time on Site: 8.5 Hrs	Travel Time: 2 Hrs

Types of Testing / Observations
 Asphalt - Field Density Testing

Referenced Documents

Observations / Remarks

*****Regular: _8.0__ OT: _2.0__ DT: ___ Reason for Travel: _Transport of CPN nuclear gauge and AC gear__ Miles to Jobsite: _31__ Miles from Jobsite: _31__ Travel to Jobsite (start): _6:15 am__ Travel to Jobsite (end): _7:15 am__ Travel from Jobsite (start): _3:45 pm__ Travel from Jobsite (end): _4:45 p.__ Expenses: _____ Equipment Used: __CPN nuclear gauge. _____*****

ASPHALT - FIELD DENSITY TESTING
 Picked up the density gauge, AC gear and truck from the San Diego office. Met ATP foreman Looney to discuss the scope of work for today. Today contractor utilized 2 HMA, the first AC Mix was 21212305//1/2" HMA Type A and then the **Mix 21212305F//1/2" HMA 58-34M Type A w/fiber**, both mixes were imported from CCA-Lakeside Plant. The first AC Mix was placed on Saint George Court and the fiber Mix on the following streets **Saint George Street** approx between Sweetwater Rd and Saint George Pl, **Hiel Street, Adriana Street and Safford Avenue**. Observe a distributor truck applied tack coat. Asphalt concrete placement with a Cat paver, initial breakdown performed with a Cat CB44B smooth drums vibratory compactor, intermediate rolling with a Dynapac CC1200 vibratory roller, and final rolling with a Cat CB7 double drums vibratory compactor. On Heil Street EB-West and Safford Avenue NB have some segments unstable, contractor opted to waive compaction due poor subgrade. Conducted 28 AC compaction test using a CPN MC-1DR-P Portaprobe nuclear, these density test meet 95% County requirements, ATP representative was notified. Today AC production was as follows: AC Mix 21212305 approx 190 tons, 21212305F approx 1648 tons.



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-01771-O1


Date of Issue: 05/07/2021

Issue No: 1

<p>Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123</p> <p>Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA</p>	<p>Project No: 200638.2</p> <p>Permit No:</p> <p>OSHPD:</p> <p>DSA File #:</p> <p>DSA AP #:</p>
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<p>Distribution:</p> <p>Jurisdiction: County of San Diego</p>	 <p>Approved Signatory: Andrew Suarez</p>
------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------

All inspections based on minimum of 4 hours and over 4 hours - 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.



Jose Franco-Casas, Inspector/Technician

Remarks:

This report will be distributed to architect, engineer, client, and governing jurisdiction (e.g. DSA) as required by applicable codes and project documents.

Certificate of Compliance		
<p>The Work <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not inspected in accordance with the requirements of the County of San Diego approved documents</p>	<p>The Work Inspected <input checked="" type="checkbox"/> Met <input type="checkbox"/> Did Not Meet the requirements of the County of San Diego approved documents</p>	<p>Material Sampling was not performed</p>

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Daily Field Report

Twining, Inc. - San Diego Lab
15950 Bernardo Center Drive, Suite H
San Diego, CA 92127
Ph: 858-974-3750
Fax: 562.426.6424

Report No: DFR:W02-21-01771-01

Date of Issue: 5/7/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2

Permit No.:

OSHPD:

DSA File #:

DSA AP #:

Jurisdiction: County of San Diego
Distribution:

Approved Signatory: Andrew Suarez (Branch Manager)





Daily Field Report

Twining, Inc. - San Diego Lab
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Ph: 858-974-3750
Fax: 562.426.6424

Report No: DFR:W02-21-01771-O1
Date of Issue: 5/7/2021 **Issue No: 1**

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


Approved Signatory: Andrew Suarez (Branch Manager)





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Daily Field Report

Report No: DFR:W02-21-01771-O1
 Date of Issue: 5/7/2021 **Issue No: 1**

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:

Andrew Suarez
 Approved Signatory: Andrew Suarez (Branch Manager)





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Daily Field Report

Report No: DFR:W02-21-01771-O1
 Date of Issue: 5/7/2021 **Issue No: 1**

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
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Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)





Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424


Asphalt Nuclear Density Report

Report No: ND:W02-21-01771
 Date of Issue: 5/7/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Testing Details

Tested By: Jose Franco-Casas **Date Tested:** 5/4/2021
Plant: Lakeside **Gauge Make/Model:**
Method of Measurement: Backscatter **Density Standard Count:** 36476
Gauge Serial: **Moisture Standard Count:** 8300
Calibration Date: **Weather:** Sunny
Calibration Source:

Test Results

ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: La Presa/Spring Valley, Ca.													
1	933 Saint George Court	NA	12.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.10	139.40	95	≥95	P
2	917 Saint George Court	NA	6.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.10	142.20	97	≥95	P
3	901 Saint George Court	NA	8.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.10	138.90	95	≥95	P
4	942 Saint George Court	NA	12.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.10	139.00	95	≥95	P
5	926 Saint George Court	NA	10.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.10	138.20	95	≥95	P
6	926 Saint George Court	NA	8.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.10	138.30	95	≥95	P
7	866 Saint George St	NA	6.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	141.50	96	≥95	P
8	8707 Saint George St	NA	10.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	140.90	96	≥95	P
9	8723 Saint George St	NA	10.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	140.10	96	≥95	P

Remarks:



Asphalt Nuclear Density Report

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Report No: ND:W02-21-01771
 Date of Issue: 5/7/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
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Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHDP:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: La Presa/Spring Valley, Ca.													
10	8747 Saint George St	NA	6.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	140.60	96	≥95	P
11	8747 Saint George St	NA	8.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	139.90	95	≥95	P
12	8806 Saint George St	NA	10.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	139.40	95	≥95	P
13	8860 Saint George St	NA	10.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	139.60	95	≥95	P
14	8784 Heil Street	NA	8.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	138.80	95	≥95	P
15	8760 Heil Street	NA	8.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	138.70	95	≥95	P
16	8720 Heil Street	NA	8.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	138.90	95	≥95	P
17	8753 Adriana Street	NA	8.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	139.20	95	≥95	P
18	8729 Adriana Street	NA	8.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	138.90	95	≥95	P
19	8705 Adriana Street	NA	6.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	138.80	95	≥95	P
20	704 Safford Avenue	NA	6.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	139.80	95	≥95	P
21	728 Safford Avenue	NA	8.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	139.60	95	≥95	P

Remarks:



Asphalt Nuclear Density Report

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 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424

Report No: ND:W02-21-01771
 Date of Issue: 5/7/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
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Approx. Test Location: La Presa/Spring Valley, Ca.

22	744 Safford Avenue	NA	8.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	138.90	95	≥95	P
23	768 Safford Avenue	NA	8.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	140.20	96	≥95	P
24	818 Safford Avenue	NA	6.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	140.10	96	≥95	P
25	842 Safford Avenue	NA	6.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	139.20	95	≥95	P
26	866 Safford Avenue	NA	6.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	138.80	95	≥95	P
27	8783 Heil Street	NA	8.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	139.30	95	≥95	P
28	8759 Heil Street	NA	6.0	Centerline	21212305 / 1/2" HMA TYPE A	1	2.0	1 min.	146.70	139.70	95	≥95	P

Remarks:



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay South		Date Sampled:	5/4/2021	
Material Description:	Combined RAP		Time Sampled:	600am	
Material Source:	CCA Lakeside		Sampled By:	I. Montano	
Sample Location:	Belt Cut		Date Tested:	5/4/2021	
Lot #:		Sublot #:		Tons Out:	
				Tested By:	I. Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3251.2	Dry Weight:	3178.0	RAP Moisture:	2.3%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2881.2	Basket + Sample	4437.5	HMA Sample Mass	1556.3
Basket + Sample Burned	4337.2	Burned Agg Mass	1456.0	Approx. Oil % TWM	5.16

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	2.5	0.2%	99.8%	+0.2	100.0%
3/8" (9.5mm)	81.9	5.6%	94.4%	+0.6	95.0%
#4 (4.75mm)	376.9	25.9%	74.1%	-0.8	73.3%
#8 (2.36mm)	107.6	41.7%	58.3%	+0.5	58.8%
#16 (1.18mm)	199	55.1%	44.9%	-0.7	44.2%
#30 (600µm)	275	66.3%	33.7%	-0.6	33.1%
#50 (300µm)	350.4	77.4%	22.6%	-0.2	22.4%
#100 (150µm)	405.6	85.5%	14.5%	+0.3	14.8%
#200 (75µm)	439.7	90.5%	9.5%	+0.5	10.0%
Mass of #4 Split	504.1				

Approved By:

Patrick Terrell
 Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay South				Date Sampled:	5/4/2021			
Material Description:	21212305 FIBER 1/2" HMA-A w/25% RAP				Time Sampled:	600am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	5/4/2021			
Tons Out:	Load #	Lot #	Sublot #	Tested By:	I. Montano				

SIEVE ANALYSIS (CTM 202)

Wet Weight:	4857.4	Dry Weight:	4789.9	% Moisture:	1.41%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	337.4	7.0%	93.0%	69.7%	100.0%	25.0%	95%	96 90-100
3/8" (9.5mm)	1282	26.8%	73.2%	54.9%	95.0%	23.7%	79%	77 71-83
#4 (4.75mm)	2461.2	51.4%	48.6%	36.5%	73.3%	18.3%	55%	55 48-62

Fine Agg Dry Weight:	511.3
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	123.6	24%	76%	37%	27.6%	58.8%	14.7%	42%	43 38-48
#16 (1.18mm)	221	43%	57%	28%	20.7%	44.2%	11.0%	32%	33
#30 (600µm)	329.4	64%	36%	17%	13.0%	33.1%	8.3%	21%	22 17-25
#50 (300µm)	419.6	82%	18%	9%	6.5%	22.4%	5.6%	12%	13
#100 (150µm)	460.3	90%	10%	5%	3.6%	14.8%	3.7%	7%	7
#200 (75µm)	478.6	93.6%	6.4%	3.1%	2.3%	10.0%	2.5%	4.8%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.0	6.6	61	47
2	4.2	6.8	62	
3	4.4	7.1	62	
Average			62	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South	Date Sampled:	5/4/2021		
Mix Type:	21212305 FIBER 1/2" HMA-A w/25% RAP	Time Sampled:	811am	Load #:	8
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	5/4/2021		
Ticket #:	1701254986	Tons Out:	159.45	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:	
Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-34 Holly
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2881.4		
Mass of Mixed Sample + Basket, M_1 (g):	4401.1		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1519.7		
Mass of Sample + Basket after burn off, M_2 (g):	4310.3		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1428.9		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.97%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.52%	5.85%	
	% by Total Weight of Mix		% by Dry Weight of Agg
Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay South				Date Sampled:	5/4/2021				
Material Description:	21212305 FIBER 1/2" HMA-A w/25% RAP				Time Sampled:	1000am				
Material Source:	CCA Lakeside				Sampled By:	I. Montano				
Sample Location:	Belt Cut				Date Tested:	5/4/2021				
Tons Out:		Load #		Lot #		Sublot #		Tested By:	I. Montano	

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5721.2	Dry Weight:	5639.9	% Moisture:	1.44%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	374.6	6.6%	93.4%	70.0%	100.0%	25.0%	95%	96 90-100
3/8" (9.5mm)	1384.2	24.5%	75.5%	56.6%	95.0%	23.7%	80%	77 71-83
#4 (4.75mm)	2840.4	50.4%	49.6%	37.2%	73.3%	18.3%	56%	55 48-62

Fine Agg Dry Weight:	518.3
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	129.4	25%	75%	37%	27.9%	58.8%	14.7%	43%	43 38-48
#16 (1.18mm)	230.5	44%	56%	28%	20.7%	44.2%	11.0%	32%	33
#30 (600µm)	337.8	65%	35%	17%	13.0%	33.1%	8.3%	21%	22 17-25
#50 (300µm)	412.5	80%	20%	10%	7.6%	22.4%	5.6%	13%	13
#100 (150µm)	454.3	88%	12%	6%	4.6%	14.8%	3.7%	8%	7
#200 (75µm)	481.2	92.8%	7.2%	3.6%	2.7%	10.0%	2.5%	5.2%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.4	7.2	62	47
2	4.3	7.0	62	
3	4.4	7.1	62	
Average			62	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South	Date Sampled:	5/4/2021		
Mix Type:	21212305 FIBER 1/2" HMA-A w/25% RAP	Time Sampled:	1102am	Load #:	41
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	5/4/2021		
Ticket #:	1701255030	Tons Out:	788.63	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-34 Holly
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2881.0		
Mass of Mixed Sample + Basket, M_1 (g):	4420.1		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1539.1		
Mass of Sample + Basket after burn off, M_2 (g):	4330.5		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1449.5		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.82%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.37%	5.68%	
	% by Total Weight of Mix		% by Dry Weight of Agg
Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay South				Date Sampled:	5/4/2021			
Material Description:	21212305 FIBER 1/2" HMA-A w/25% RAP				Time Sampled:	215pm			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	5/4/2021			
Tons Out:	Load #	Lot #	Sublot #	Tested By:	I. Montano				

SIEVE ANALYSIS (CTM 202)

Wet Weight:	4859.4	Dry Weight:	4796.5	% Moisture:	1.31%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	301.3	6.3%	93.7%	70.3%	100.0%	25.0%	95%	96 90-100
3/8" (9.5mm)	1281.1	26.7%	73.3%	55.0%	95.0%	23.7%	79%	77 71-83
#4 (4.75mm)	2406.8	50.2%	49.8%	37.4%	73.3%	18.3%	56%	55 48-62

Fine Agg Dry Weight:	511
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	134.4	26%	74%	37%	27.5%	58.8%	14.7%	42%	43 38-48
#16 (1.18mm)	226.3	44%	56%	28%	20.8%	44.2%	11.0%	32%	33
#30 (600µm)	318.4	62%	38%	19%	14.1%	33.1%	8.3%	22%	22 17-25
#50 (300µm)	408.7	80%	20%	10%	7.5%	22.4%	5.6%	13%	13
#100 (150µm)	459.0	90%	10%	5%	3.8%	14.8%	3.7%	7%	7
#200 (75µm)	477	93.3%	6.7%	3.3%	2.5%	10.0%	2.5%	5.0%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.2	6.8	62	47
2	4.4	6.9	64	
3	4.4	7.2	62	
Average			63	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South	Date Sampled:	5/4/2021		
Mix Type:	21212305 FIBER 1/2" HMA-A w/25% RAP	Time Sampled:	240pm	Load #:	79
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	5/4/2021		
Ticket #:	1701255098	Tons Out:	1514.27	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-34 Holly
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2873.2		
Mass of Mixed Sample + Basket, M_1 (g):	4402.0		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1528.8		
Mass of Sample + Basket after burn off, M_2 (g):	4313.5		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1440.3		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.79%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.34%	5.64%	
	% by Total Weight of Mix		% by Dry Weight of Agg
Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay South		Date Sampled:	5/4/2021
Material Description:	Combined RAP		Time Sampled:	500am
Material Source:	CCA Lakeside		Sampled By:	I. Montano
Sample Location:	Belt Cut		Date Tested:	5/4/2021
Lot #:		Sublot #:	Tons Out:	Tested By: I. Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3251.2	Dry Weight:	3178.0	RAP Moisture:	2.3%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2881.2	Basket + Sample	4437.5	HMA Sample Mass	1556.3
Basket + Sample Burned	4337.2	Burned Agg Mass	1456.0	Approx. Oil % TWM	5.16

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	2.5	0.2%	99.8%	+0.2	100.0%
3/8" (9.5mm)	81.9	5.6%	94.4%	+0.6	95.0%
#4 (4.75mm)	376.9	25.9%	74.1%	-0.8	73.3%
#8 (2.36mm)	107.6	41.7%	58.3%	+0.5	58.8%
#16 (1.18mm)	199	55.1%	44.9%	-0.7	44.2%
#30 (600µm)	275	66.3%	33.7%	-0.6	33.1%
#50 (300µm)	350.4	77.4%	22.6%	-0.2	22.4%
#100 (150µm)	405.6	85.5%	14.5%	+0.3	14.8%
#200 (75µm)	439.7	90.5%	9.5%	+0.5	10.0%
Mass of #4 Split	504.1				

Approved By:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South				Date Sampled:	5/4/2021				
Material Description:	21212305 1/2" HMA-A w/25% RAP				Time Sampled:	510am				
Material Source:	CCA Lakeside				Sampled By:	I. Montano				
Sample Location:	Belt Cut				Date Tested:	5/4/2021				
Tons Out:		Load #		Lot #		Sublot #		Tested By:	I. Montano	

SIEVE ANALYSIS (CTM 202)

Wet Weight:	4857.4	Dry Weight:	4789.9	% Moisture:	1.41%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	337.4	7.0%	93.0%	69.7%	100.0%	25.0%	95%	96 90-100
3/8" (9.5mm)	1282	26.8%	73.2%	54.9%	95.0%	23.7%	79%	77 71-83
#4 (4.75mm)	2461.2	51.4%	48.6%	36.5%	73.3%	18.3%	55%	55 48-62

Fine Agg Dry Weight:	511.3
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	123.6	24%	76%	37%	27.6%	58.8%	14.7%	42%	43 38-48
#16 (1.18mm)	221	43%	57%	28%	20.7%	44.2%	11.0%	32%	33
#30 (600µm)	329.4	64%	36%	17%	13.0%	33.1%	8.3%	21%	22 17-25
#50 (300µm)	419.6	82%	18%	9%	6.5%	22.4%	5.6%	12%	13
#100 (150µm)	460.3	90%	10%	5%	3.6%	14.8%	3.7%	7%	7
#200 (75µm)	478.6	93.6%	6.4%	3.1%	2.3%	10.0%	2.5%	4.8%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.0	6.6	61	47
2	4.2	6.8	62	
3	4.4	7.1	62	
Average			62	

Approved by:



Patrick Terrell
Quality Control Manager II

Project:	San Diego County Overlay South		Date Sampled:	5/4/2021	
Mix Type:	21212305 1/2" HMA-A w/25% RAP		Time Sampled:	643am	Load #: 4
Material Source:	CCA Lakeside		Sampled By:	I. Montano	
Sample Location:	Truck Bed at Plant		Date Tested:	5/4/2021	
Ticket #:	1701254969	Tons Out:	77.31	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209		
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C	<input type="checkbox"/> 482°C	<input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes		
Asphalt Binder type and source:	PG 58-16 San Joaquin		
Aggregate Source:	Hanson Aggregates, Vigilante Mine		
Correction Factor, CF (%):	0.45%		

Ignition Oven Procedure

Mass of Basket, M_e (g):	2874.1	
Mass of Mixed Sample + Basket, M_1 (g):	4468.0	
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1593.9	
Mass of Sample + Basket after burn off, M_2 (g):	4375.7	
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1501.6	
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.79%	
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.34%	5.64%
	% by Total Weight of Mix	% by Dry Weight of Agg

Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II

Location 4



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-00467-01

Date of Issue: 02/08/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123 Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA	Project No: 200638.2 Permit No: OSHPD: DSA File #: DSA AP #:
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Distribution: Jurisdiction: County of San Diego	 Approved Signatory: Andrew Suarez
--------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------

Test Date: Friday, February 5, 2021	Inspector: Jose Franco-Casas	
Inspection No.:		
Contractor: ATP		
Equipment Obsv.: a) 2-Wirtgen milling machine, b) 2-Mechanical brooms, c) One Bear Cat CRC distributor truck, d) Water truck, e) Cat AP1055F Paver, f) Volvo DD110B vibratory compactor, g) Cat PS-150C rubber tire roller, h) Cat CB24B vibratory compactor, i) Dynapac CC2200 vibratory compactor, j) 2-Cat 262D skid steer, k) Deere 210L skip		
Time Arrived: 8:00 AM	Time Departed: 3:30 PM	Time on Site: 7.5 Hrs
Lunch Start: 11:15 AM	Lunch End: 11:45 AM	Travel Time: 2 Hrs
Mileage: 90.0	Weather: Sunny	

Types of Testing / Observations
Asphalt - Field Density Testing

Referenced Documents
Submittal No. ATP019R2, dated 12.02.2020.

Observations / Remarks
<p>*****Regular: _8.0__ OT:_1.0__ DT:___ Reason for Travel:_Transport of CPN nuclear gauge, AC gear and samples.__ Miles to Jobsite:_45__ Miles from Jobsite:_45__ Travel to Jobsite (start):_7:00am__ Travel to Jobsite (end):_8:00am__ Travel from Jobsite (start):_3:30pm__ Travel from Jobsite (end):_4:30pm__ Expenses:_____ Equipment U,sed: _CPN nuclear gauge and AC gear_____*****</p> <p>ASPHALT - FIELD DENSITY TESTING First stop at Twining Lab to pick up CPN nuclear gauge and AC gear. Contractor placing asphalt concrete on Carroll Canyon Road in Bonita, AC placement first on the South bound, right lane, approx between House No.3627 to House No. 3806, then the North bound, right lane, approx between House No. 3807 to Central Ave. Contractor scheduled 800 tons from the CCA-Lakeside Plant of the HMA Product Code 212124 - 1/2" HMA Type A (PMAC) PG 58-34M. Observe milling operations with 2 Wirtgen machines, two mechanical brooms swept each lane. Tack coat applied with a CRS distributor truck. AC placement with a Cat paver. Inspected thr first load ticket and found a discrepancy on the Mix Design No. ticket show a wrong Mix Code 21210415, this was brought to the attention of foreman Sal Lopez, Superintendent Jarrod Duke and County RE Meriam Chihuahua. They call CCA-Lakeside Weigtmaster, they say mix was right, and they reprint ticket with the right Mix Code of loads 1, 2, 3, 4 and 5. As requested, sampled load #11, per CT-125, but this sample was discarded according to the QA rep due discrepancy with CT-125 / Appendix B / Preparing Samples. Obtained a 2nd sample from load #19, constructed 3-sets of 4 cardboard boxes, 8 boxes for the QA team, and 4 boxes for QC team. Monitored AC temperature and found at/above 285°F. Generally ATP performed initial breakdown with a Volvo dual smooth drums vibratory and,</p>



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-00467-O1

Date of Issue: 02/08/2021

Issue No: 1

<p>Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123</p> <p>Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA</p>	<p>Project No: 200638.2</p> <p>Permit No:</p> <p>OSHPD:</p> <p>DSA File #:</p> <p>DSA AP #:</p>
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<p>Distribution:</p> <p>Jurisdiction: County of San Diego</p>	 <p>Approved Signatory: Andrew Suarez</p>
------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------

Observations / Remarks (continued)

intermediate rolling with a rubber tire roller and a Cat CB54B vibratory compactor, final rolling performed with a Dynapac CC2200 double drum vibratory compactor.

Conducted 16 AC density test using a CPN MC-1DR-P Portaprobe nuclear gauge, these density test meet 95% County requirements, ATP foreman and personnel was notified.

Today AC production was approx 826.4 tons.

Samples were transported to Twining Lab for conformance testing.

All inspections based on minimum of 4 hours and over 4 hours - 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.



Jose Franco-Casas, Inspector/Technician

Remarks: Lunch not taken reason: Continuous inspection

This report will be distributed to architect, engineer, client, and governing jurisdiction (e.g. DSA) as required by applicable codes and project documents.

Certificate of Compliance					
The Work	<input checked="" type="checkbox"/> Was	<input type="checkbox"/> Was Not	The Work Inspected	<input checked="" type="checkbox"/> Met	<input type="checkbox"/> Did Not Meet
inspected in accordance with the requirements of the County of San Diego approved documents		the requirements of the County of San Diego approved documents		performed in accordance with the requirements of the County of San Diego approved documents	

All Reports Remain The Property of Twining, Inc. Authorization For The Publication Of Our Reports, Conclusions, Or Extracts From Or Regarding Them is Reserved Pending Our Written Approval As A Mutual Protection To Clients, The Public and Ourselves



Daily Field Report

Twining, Inc. - San Diego Lab
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San Diego, CA 92127
Ph: 858-974-3750
Fax: 562.426.6424

Report No: DFR:W02-21-00467-O1

Date of Issue: 2/8/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123

Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2

Permit No.:

OSHPD:

DSA File #:

DSA AP #:

Jurisdiction: County of San Diego
Distribution:

Approved Signatory: Andrew Suarez (Branch Manager)





Daily Field Report

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Fax: 562.426.6424

Report No: DFR:W02-21-00467-O1

Date of Issue: 2/8/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123

Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2

Permit No.:

OSHPD:

DSA File #:

DSA AP #:

Jurisdiction: County of San Diego
Distribution:

Approved Signatory: Andrew Suarez (Branch Manager)





Daily Field Report


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San Diego, CA 92127
Ph: 858-974-3750
Fax: 562.426.6424

Report No: DFR:W02-21-00467-O1
Date of Issue: 2/8/2021 **Issue No: 1**

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


Approved Signatory: Andrew Suarez (Branch Manager)





Daily Field Report

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San Diego, CA 92127
Ph: 858-974-3750
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Report No: DFR:W02-21-00467-O1
Date of Issue: 2/8/2021 **Issue No: 1**

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


Approved Signatory: Andrew Suarez (Branch Manager)





Daily Field Report

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 Ph: 858-974-3750
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Report No: DFR:W02-21-00467-O1
 Date of Issue: 2/8/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123

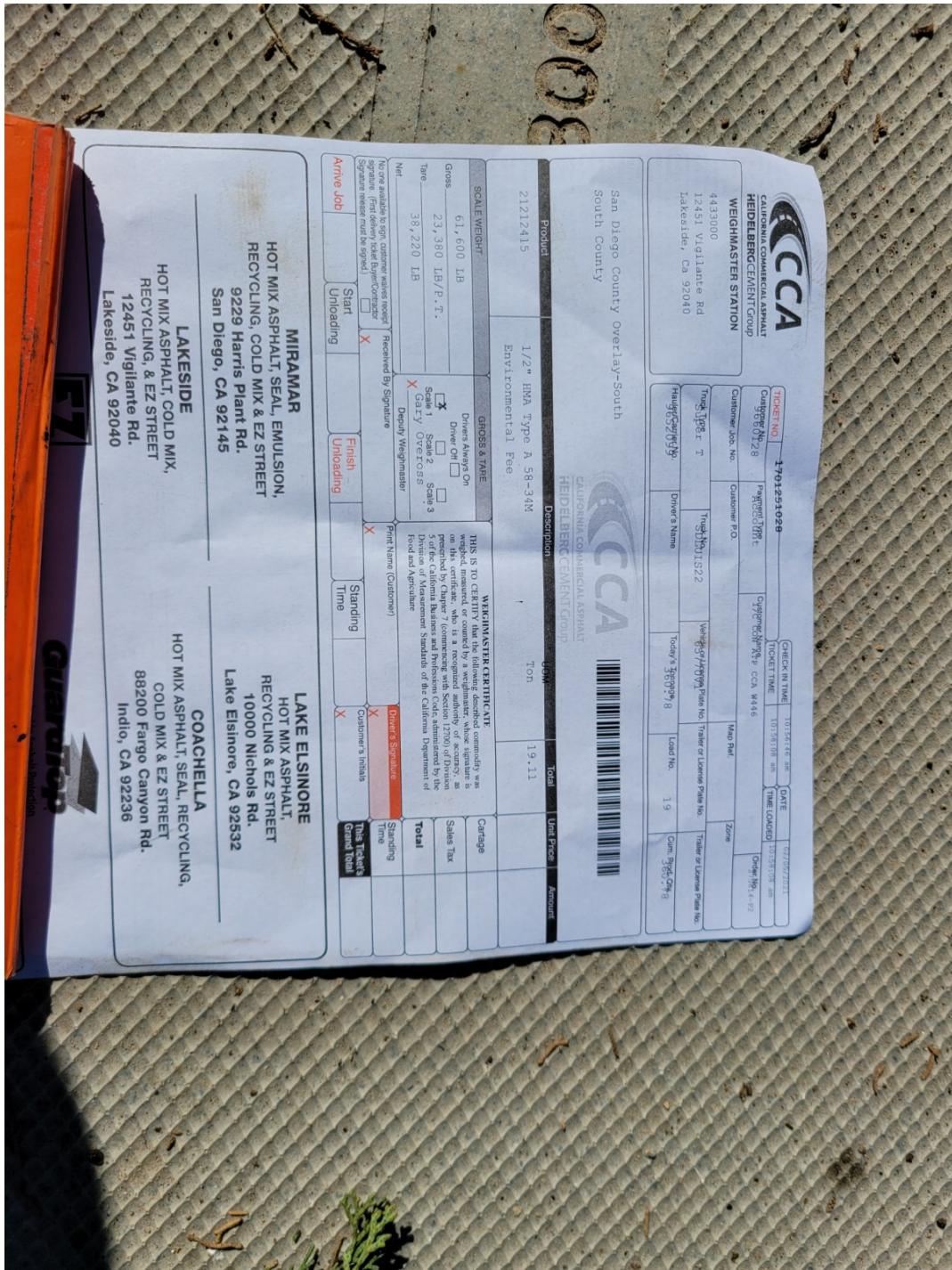
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:



Approved Signatory: Andrew Suarez (Branch Manager)





Daily Field Report

Twining, Inc. - San Diego Lab
15950 Bernardo Center Drive, Suite H
San Diego, CA 92127
Ph: 858-974-3750
Fax: 562.426.6424

Report No: DFR:W02-21-00467-O1
Date of Issue: 2/8/2021 **Issue No: 1**

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


Approved Signatory: Andrew Suarez (Branch Manager)





Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424


Asphalt Nuclear Density Report

Report No: ND:W02-21-00467
 Date of Issue: 2/8/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Testing Details

Tested By: Jose Franco-Casas **Date Tested:** 2/5/2021
Plant: Lakeside **Gauge Make/Model:**
Method of Measurement: Backscatter **Density Standard Count:** 31379
Gauge Serial: **Moisture Standard Count:** 9828
Calibration Date: **Weather:** Sunny
Calibration Source:

Test Results

ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft ³)	In Situ Density (lb/ft ³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Bonita													
1	3627 Carroll Canyon Road	NA	6.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	142.70	97	≥95	P
2	3651 Carroll Canyon Road	NA		Right side of centerline	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	140.20	96	≥95	P
3	3668 Carroll Canyon Road	NA	6.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	139.80	95	≥95	P
4	3710 Carroll Canyon Road	NA	6.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	142.70	97	≥95	P
5	3726 Carroll Canyon Road	NA	8.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	140.30	96	≥95	P
6	3637 Carroll Canyon Road	NA	6.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	140.00	96	≥95	P
7	3768 Carroll Canyon Road	NA	7.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	141.90	97	≥95	P
8	5607 Carroll Canyon Road	NA	6.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	141.50	97	≥95	P
9	3751 Carroll Canyon Road	NA	7.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	142.50	97	≥95	P

Remarks:



Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424


Asphalt Nuclear Density Report

Report No: ND:W02-21-00467
 Date of Issue: 2/8/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Bonita													
10	3727 Carroll Canyon Road	NA		Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	140.10	96	≥95	P
11	3703 Carroll Canyon Road	NA	8.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	141.30	97	≥95	P
12	3659 Carroll Canyon Road	NA	8.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	142.60	97	≥95	P
13	3637 Carroll Canyon Road	NA		Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	140.90	96	≥95	P
14	3627 Carroll Canyon Road	NA	8.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	140.80	96	≥95	P
15	Carroll Canyon Road approx 150ft from Central Av	NA	6.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	141.30	97	≥95	P
16	5541 Carroll Canyon Road	NA	8.0	Right shoulder	21212415 1/2" HMA (PMAC)	1	3.0	1 min.	146.40	140.10	96	≥95	P

Remarks:

SUMMARY OF TESTING



CONTRACTOR NAME, ADDRESS, AND PHONE NUMBER ATP General Engineering 4211 Ponderosa Ave San Diego, CA 92123 Hassan Bitar 619-530-8541 ACO South	SAMPLE DATE	2/5/2021		
	FIELD NUMBER	21212415 - 1/2" Type A PG58-34 PM - NON FIBER		
	TEST NUMBER	Lot 1 PSUE		
	HMA TYPE	1/2" HMA-A; PG 58-34PM		
	SAMPLE INFORMATION	Lot 1 PSUE/SL 2		

This form must be submitted with all daily testing reports. Circle all test results that are not within the Action Limits. Use additional sheets as necessary. All aggregate testing data has been supplied by CCA

Quality Characteristic		Test Result Sublot Number	Test Result Sublot Number	Test Result Sublot Number	Test Result Sublot Number	LSL	Target Value	USL
		PSUE	2	-	-			
Aggregate gradation (% passing, report to tenth)								
% Passing	Sieve Size							
	2"	100	100			100	100	100
	1 1/2"	100	100			100	100	100
	1"	100	100			100	100	100
	3/4"	100	100			100	100	100
	1/2"	95	95			91	96	100
	3/8"	77	77			71	77	83
	No. 4	53	55			48	55	62
	No. 8	40	42			38	43	48
	No. 16	31	26				33	
	No. 30	21	21			18	22	26
	No. 50	12	12				13	
No. 100	7	8				7		
No. 200	4.7	5.4			2.4	4.4	6.4	
Sand Equivalent	CTM 217	63	64			50		Min
HMA Moisture Content (%)	CTM 382	0.0%	0.0%			0		0.5
Aggregate Moisture	CTM 226	3.80	3.74			Report Only		

SUMMARY OF TESTING

				SAMPLE DATE				2/2/2021					
				FIELD NUMBER				21212415 - 1/2" Type A PG58-34 PM - NON FIBER					
				TEST NUMBER				Lot 1 PSUE					
				HMA TYPE				1/2" HMA-A; PG 58-34PM					
				SAMPLE INFORMATION				Lot 1 PSUE/SL 2					
Quality Characteristic	Test Result Sublot Number			Test Result Sublot Number	Test Result Sublot Number	Test Result Sublot Number	LSL	Target Value	USL				
	PSUE									2	-	-	
L.A. Rattler, Loss @ 100 Rev (%)	CT 211			3.6			12		Max				
L.A. Rattler, Loss @ 500 Rev (%)	CT 211			17.3			40		Max				
Crushed particles, Coarse agg (%) One fractured face	CT 205			99			95		Min				
Crushed particles, Coarse agg (%) Two fractured faces	CT 205			97			90		Min				
Crushed particles, Fine agg (%) One fractured face	CT 205			99			70		Min				
Fine aggregate angularity (%)	CT 234			45			45		Min				
Flat and Elong particles(% 5:1)	CT 235			4.0			10		Max				
TEST PROPERTY	A	B	C	AVG.			Target Values/Tolerances						
Asphalt binder content (%TWM)	CTM 382			5.49	5.33		5.09	5.39	5.89				
RAP AC %	CTM 382			5.26			2.70	4.70	6.70				
RAP Moisture	CTM 370			3.10			Report Only						
Hveem Stability	CTM 366			41			37						
Briquette Sp. Gr.	2.336	2.335	2.334	2.335			N/A						
Theoretical Max Density	CT 309			2.454			Report Only						
Air Voids (%)	4.8	4.8	4.9	4.8			2.5	4	5.5				
Voids in Mineral Aggregate (%)	15.2	15.2	15.3	15.2			14						
Voids Filled With Asphalt (%)	68.4	68.2	68.0	68.2			Report Only						
Dust Proportion	1.2	1.2	1.2	1.2			0.6	-	1.3				



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay South			Date Sampled:	2/5/2021
Material Description:	Combined RAP			Time Sampled:	6:00 AM
Material Source:	CCA Lakeside			Sampled By:	I. Montano
Sample Location:	Belt Cut			Date Tested:	2/5/2021
Lot #:		Sublot #:		Tons Out:	
				Tested By:	I. Montano

**RECYCLED ASPHALT PRODUCT
 MOISTURE CONTENT OF RAP
 (CTM 370)**

Wet Weight:	2591.4	Dry Weight:	2513.2	RAP Moisture:	3.1%
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**SIEVE ANALYSIS OF POST IGNITION OVEN RAP
 (CTM 202)**

Basket Mass	2868.1	Basket + Sample	4389.3	HMA Sample Mass	1521.2
Basket + Sample Burned	4289.2	Burned Agg Mass	1421.1	Approx. Oil % TWM	5.26

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	25.4	1.8%	98.2%	+0.2	98.4%
3/8" (9.5mm)	96.3	6.8%	93.2%	+0.6	93.8%
#4 (4.75mm)	364.8	25.7%	74.3%	-0.8	73.5%
#8 (2.36mm)	116.4	42.6%	57.4%	+0.5	57.9%
#16 (1.18mm)	210.8	56.3%	43.7%	-0.7	43.0%
#30 (600µm)	284.5	66.9%	33.1%	-0.6	32.5%
#50 (300µm)	361.4	78.1%	21.9%	-0.2	21.7%
#100 (150µm)	413.8	85.7%	14.3%	+0.3	14.6%
#200 (75µm)	450.3	91.0%	9.0%	+0.5	9.5%
Mass of #4 Split	512.3				

Approved By:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South				Date Sampled:	2/5/2021			
Material Description:	21212415 1/2" HMA-A w/25% RAP				Time Sampled:	600am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	2/5/2021			
Tons Out:	Load #	Lot #	Sublot #	Tested By:	I. Montano				

**SIEVE ANALYSIS
(CTM 202)**

Wet Weight:	6302.1	Dry Weight:	6071.3	% Moisture:	3.80%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%		75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%		75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%		75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%		75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	304.4	5.0%	95.0%		71.2%	98.4%	24.6%	96%	96 90-100
3/8" (9.5mm)	1749.4	28.8%	71.2%		53.4%	93.8%	23.5%	77%	77 71-83
#4 (4.75mm)	3200.9	52.7%	47.3%		35.5%	73.5%	18.4%	54%	55 48-62

Fine Agg Dry Weight:	515.7
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	119.8	23%	77%	36%	27.2%	57.9%	14.5%	42%	43 38-48
#16 (1.18mm)	217.2	42%	58%	27%	20.5%	43.0%	10.8%	31%	33
#30 (600µm)	321.9	62%	38%	18%	13.3%	32.5%	8.1%	21%	22 17-25
#50 (300µm)	413.5	80%	20%	9%	7.0%	21.7%	5.4%	12%	13
#100 (150µm)	458.4	89%	11%	5%	3.9%	14.6%	3.6%	8%	7
#200 (75µm)	473.3	91.8%	8.2%	3.9%	2.9%	9.5%	2.4%	5.3%	4.4 2.4-6.4

**SAND EQUIVALENT
(CTM 217)**

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.0	6.3	64	47
2	4.2	6.8	62	
3	4.1	6.4	64	
Average			63	

Approved by:



Patrick Terrell
Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 email: patrick.terrell@lehighhanson.com

Project:	San Diego County Overlay South	Date Sampled:	2/5/2021		
Mix Type:	21212415 1/2" HMA-A w/25% RAP	Time Sampled:	954am	Load #:	9
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	2/5/2021		
Ticket #:	1701251013	Tons Out:	170.16	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
 CALIFORNIA TEST METHOD 382**

Calibration Information:	
Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-34 Holly
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M _e (g):	2868.5	
Mass of Mixed Sample + Basket, M ₁ (g):	4384.0	
Net Mass of of the Mixed Sample, M ₁ -M _e , M _i (g):	1515.5	
Mass of Sample + Basket after burn off, M ₂ (g):	4294.0	
Final Mass of Sample Aggregate, M ₂ - M _e , M _f (g)	1425.5	
Raw Asphalt Content, A = (M _i - M _f) ÷ M _i) x 100 (%) :	5.94%	
Corrected Asphalt Content AC = A - CF - MC (%) :	5.49%	5.81%
	% by Total Weight of Mix	% by Dry Weight of Agg

Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
 Patrick Terrell - QC Manager II

Project:	San Diego County Overlay South				Date Sampled:	2/5/2021			
Material Description:	21212415 1/2" HMA-A w/25% RAP				Time Sampled:	1230pm			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	2/5/2021			
Tons Out:	Load #	Lot #	Sublot #		Tested By:	I. Montano			

SIEVE ANALYSIS (CTM 202)

Wet Weight:	6099.0	Dry Weight:	5879.4	% Moisture:	3.74%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	345.3	5.9%	94.1%	70.6%	98.4%	24.6%	95%	96 90-100
3/8" (9.5mm)	1677.3	28.5%	71.5%	53.6%	93.8%	23.5%	77%	77 71-83
#4 (4.75mm)	3008.5	51.2%	48.8%	36.6%	73.5%	18.4%	55%	55 48-62

Fine Agg Dry Weight:	510
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	132	26%	74%	36%	27.1%	57.9%	14.5%	42%	43 38-48
#16 (1.18mm)	299.7	59%	41%	20%	15.1%	43.0%	10.8%	26%	33
#30 (600µm)	333.4	65%	35%	17%	12.7%	32.5%	8.1%	21%	22 17-25
#50 (300µm)	412.5	81%	19%	9%	7.0%	21.7%	5.4%	12%	13
#100 (150µm)	448.0	88%	12%	6%	4.5%	14.6%	3.6%	8%	7
#200 (75µm)	468.2	91.8%	8.2%	4.0%	3.0%	9.5%	2.4%	5.4%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.3	6.9	63	47
2	4.3	6.6	66	
3	4.1	6.4	64	
Average			64	

Approved by:



Patrick Terrell
Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 email: patrick.terrell@lehighhanson.com

Project:	San Diego County Overlay South	Date Sampled:	2/5/2021		
Mix Type:	21212415 1/2" HMA-A w/25% RAP	Time Sampled:	119pm	Load #:	44
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	2/5/2021		
Ticket #:	1701251067	Tons Out:	835.4	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
 CALIFORNIA TEST METHOD 382**

Calibration Information:	
Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-34 Holly
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2876.8	
Mass of Mixed Sample + Basket, M_1 (g):	4516.2	
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1639.4	
Mass of Sample + Basket after burn off, M_2 (g):	4421.4	
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1544.6	
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.78%	
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.33%	5.63%
	% by Total Weight of Mix	% by Dry Weight of Agg

Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
 Patrick Terrell - QC Manager II

HMA Physical Properties Worksheet

Client ATP Engineering Contractors
 Project SD County Overlay South

Job No. 200638.2
 Lab No. W05-21-00

Sample Location/ID 1/2" HMA Type A - PMAC 21212415

Sampled by J Casas
 Date Sampled 2/5/2021

Tested By BB

Date Tested 2/8/2021

CT 309 Maximum Theoretical Gravity	
Sample Weight	1579.4
Pycnometer + H ₂ O	7356.4
Sample+Pycnometer+H ₂ O	8292.2
Temperature H ₂ O	25.0
Maximum Specific Gravity	2.454

Lab Tested Maximum Density			
Briquette ID	1	2	3
Thickness	2.57	2.54	2.54
Weight in Air	1200.7	1200.6	1200.2
Paraffin Coated Wt	1217.7	1216.1	1217.0
Weight in Water	684.8	684.6	684.2
Vol. cc	514.0	514.3	514.1
Sp. Gr.	2.336	2.335	2.334
PCF	145.4	145.3	145.3
Specific Gravity, (average)			2.335
Weight per cubic foot, (average)			145.3
Air Voids (average), %			4.8

CT 366 Stability						
2000	3000	4000	5000lbs (R)	6000	Turn Dial (T)	Stability
16	24	32	41.0	51	2.68	42
17	25	33	43.0	53	2.76	40
17	26	34	44.0	55	2.73	40
Average Stability						41



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-01791-01

Date of Issue: 05/07/2021

Issue No: 1

<p>Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123</p> <p>Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA</p>	<p>Project No: 200638.2</p> <p>Permit No:</p> <p>OSHPD:</p> <p>DSA File #:</p> <p>DSA AP #:</p>
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<p>Distribution:</p> <p>Jurisdiction: County of San Diego</p>	 <p>Approved Signatory: Andrew Suarez</p>
------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------

<p>Test Date: Wednesday, May 5, 2021</p> <p>Inspection No.:</p> <p>Contractor: ATP</p> <p>Equipment Obsv.: a) Grinder machine, b) Mechanical broom, c) Bear Cat CRC distributor truck, d) Cat 10-20B paver, e) Cat CB44B smooth drums vibratory compactor, f) Dynapac CC1200 vibratory roller, g) Cat CB7 smooth drums vibratory roller, h) Water truck, i) Deere 210LK skip loader.</p>	<p>Inspector: Jose Franco-Casas</p> <p>Time Arrived: 8:15 AM Time Departed: 4:00 PM Time on Site: 7.75 Hrs</p> <p>Lunch Start: 11:15 AM Lunch End: 11:45 AM Travel Time: 2 Hrs</p> <p>Mileage: 68.0 Weather: Sunny</p>
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Types of Testing / Observations
Asphalt - Field Density Testing

Referenced Documents
HMA ID 21212415// 1/2" HMA 58-34M Type A

Observations / Remarks
<p>*****Regular: _8.0_ OT: _1.25_ DT: ___ Reason for Travel: _Transport of CPN nuclear gauge, AC gear and AC samples_ Miles to Jobsite: _34_ Miles from Jobsite: _34_ Travel to Jobsite (start): _7:15 am_ Travel to Jobsite (end): _8:15 am_ Travel from Jobsite (start): _4:00 pm_ Travel from Jobsite (end): _5:00 pm_ Expenses: _____ Equipment Used: _CPN nuclear gauge and AC gear. _____</p> <p>*****</p> <p>ASPHALT - FIELD DENSITY TESTING Picked up the density gauge, AC gear and truck from the San Diego office. Upon arrival met ATP foreman Looney to discuss the scope of work for today. Today contractor placed an asphalt concrete 3" overlay on Corral Canyon Road at the median and N/S bound lanes, approximately between Jockey Way and Central Avenue. Contractor utilized the AC Mix ID 21212415// 1/2" HMA Type A 58-34M, this asphalt was imported from CCA-Lakeside Plant. Observe a mechanical broom sweeping each lane prior tack coat application, this tack coat was applied with a Bear Cat CRC distributor truck. Asphalt concrete placement with a Cat paver, initial breakdown performed with a Cat CB44B smooth drums vibratory compactor, intermediate rolling with a Dynapac vibratory roller, and final rolling with a Cat CB7 double drums vibratory compactor. Monitored AC temperature, range between 280°F and 312°F. Sampled Load No. 13, Truck No. SDA9, Ticket No. 1701355127, Sample Time 10:12 am, AC temperature 302°F, Location was 3651 Corral Canyon Road (NB). Cast one set of 12 cardboard boxes, these samples were transported to Twining Lab in San Diego for conformance testing. Conducted 25 AC density test using a CPN MC-1DR-P Portaprobe nuclear gauge, these compaction test meet 95% County requirements, ATP personnel was</p>



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-01791-O1

Date of Issue: 05/07/2021


Issue No: 1

<p>Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123</p> <p>Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA</p>	<p>Project No: 200638.2</p> <p>Permit No:</p> <p>OSHPD:</p> <p>DSA File #:</p> <p>DSA AP #:</p>
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<p>Distribution:</p> <p>Jurisdiction: County of San Diego</p>	 <p>Approved Signatory: Andrew Suarez</p>
------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------

Observations / Remarks (continued)
 notified.
 Today asphalt concrete production was 76 loads 1435.93 tons.

All inspections based on minimum of 4 hours and over 4 hours - 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.


 Jose Franco-Casas, Inspector/Technician

Remarks:

This report will be distributed to architect, engineer, client, and governing jurisdiction (e.g. DSA) as required by applicable codes and project documents.

Certificate of Compliance		
<p>The Work <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not inspected in accordance with the requirements of the County of San Diego approved documents</p>	<p>The Work Inspected <input checked="" type="checkbox"/> Met <input type="checkbox"/> Did Not Meet the requirements of the County of San Diego approved documents</p>	<p>The Material Sampling <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not performed in accordance with the requirements of the County of San Diego approved documents</p>

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Daily Field Report

Twining, Inc. - San Diego Lab
15950 Bernardo Center Drive, Suite H
San Diego, CA 92127
Ph: 858-974-3750
Fax: 562.426.6424

Report No: DFR:W02-21-01791-01
Date of Issue: 5/7/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
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Jurisdiction: County of San Diego
Distribution:


Approved Signatory: Andrew Suarez (Branch Manager)





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Jurisdiction: County of San Diego
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OSHPD:

DSA File #:

DSA AP #:

Approved Signatory: Andrew Suarez (Branch Manager)





Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424


Asphalt Nuclear Density Report

Report No: ND:W02-21-01791
 Date of Issue: 5/7/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Testing Details

Tested By: Jose Franco-Casas **Date Tested:** 5/5/2021
Plant: Lakeside **Gauge Make/Model:**
Method of Measurement: Backscatter **Density Standard Count:** 31268
Gauge Serial: **Moisture Standard Count:** 9714
Calibration Date: **Weather:** Sunny
Calibration Source:

Test Results

ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Bonita, Ca.													
1	5646 Corral Canyon Road	NA	20.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	140.10	96	≥95	P
2	3613A Corral Canyon Road	NA	12.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	142.20	97	≥95	P
3	3613B Corral Canyon Road	NA	10.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	139.50	96	≥95	P
4	3651 Corral Canyon Road	NA	20.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	140.30	96	≥95	P
5	3659 Corral Canyon Road	NA	15.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	140.00	96	≥95	P
6	3667 Corral Canyon Road	NA	10.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	139.90	96	≥95	P
7	3703 Corral Canyon Road	NA	10.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	139.80	96	≥95	P

Remarks:



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Customer: ATP Engineering Contractors (Lehigh Hanson)
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Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
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Approx. Test Location: Bonita, Ca.

8	3719 Corral Canyon Road	NA	8.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	138.60	95	≥95	P
9	3735 Corral Canyon Road	NA	8.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	140.10	96	≥95	P
10	3751 Corral Canyon Road	NA	8.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	138.40	95	≥95	P
11	5607 Corral Canyon Road	NA	10.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	142.20	97	≥95	P
12	3807 Corral Canyon Road	NA	10.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	140.80	97	≥95	P
13	5530A Corral Canyon Road	NA	10.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	138.70	95	≥95	P
14	5530B Corral Canyon Road	NA	22.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	138.40	95	≥95	P
15	5530C Corral Canyon Road	NA	20.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	138.10	95	≥95	P
16	3627 Corral Canyon Road	NA	4.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	139.10	95	≥95	P

Remarks:



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Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
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Approx. Test Location: Bonita, Ca.

17	3643 Corral Canyon Road	NA	8.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	138.50	95	≥95	P
18	3651 Corral Canyon Road	NA	6.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	139.10	95	≥95	P
19	3668 Corral Canyon Road	NA	15.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	141.80	97	≥95	P
20	3682 Corral Canyon Road	NA	10.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	139.30	95	≥95	P
21	3710 Corral Canyon Road	NA	8.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	141.90	97	≥95	P
22	3726 Corral Canyon Road	NA	10.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	139.60	96	≥95	P
23	5567 Corral Canyon Road	NA	10.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	138.70	95	≥95	P
24	5568 Corral Canyon Road	NA	6.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	140.20	96	≥95	P
25	3806 Corral Canyon Road	NA	8.0	Centerline	21212415// 1/2" HMA 58-34M Type A	1	3.0	1 min.	145.90	138.60	95	≥95	P

Remarks:



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay south		Date Sampled:	5/5/2021	
Material Description:	Combined RAP		Time Sampled:	530am	
Material Source:	CCA Lakeside		Sampled By:	I. Montano	
Sample Location:	Belt Cut		Date Tested:	5/5/2021	
Lot #:		Sublot #:	Tons Out:	Tested By: I. Montano	

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3155.3	Dry Weight:	3084.5	RAP Moisture:	2.3%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2881.2	Basket + Sample	4431.4	HMA Sample Mass	1550.2
Basket + Sample Burned	4311.3	Burned Agg Mass	1430.1	Approx. Oil % TWM	6.20

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	28.8	2.0%	98.0%	+0.2	98.2%
3/8" (9.5mm)	127.4	8.9%	91.1%	+0.6	91.7%
#4 4.75mm)	422.1	29.5%	70.5%	-0.8	69.7%
#8 (2.36mm)	105.5	43.8%	56.2%	+0.5	56.7%
#16 (1.18mm)	214.6	58.6%	41.4%	-0.7	40.7%
#30 (600µm)	286.3	68.4%	31.6%	-0.6	31.0%
#50 (300µm)	358.7	78.2%	21.8%	-0.2	21.6%
#100 (150µm)	420	86.5%	13.5%	+0.3	13.8%
#200 (75µm)	452.1	90.8%	9.2%	+0.5	9.7%
Mass of #4 Split	519.6				

Approved By:

Patrick Terrell
 Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay south				Date Sampled:	5/5/2021			
Material Description:	21212415 1/2" HMA-A w/25% RAP				Time Sampled:	600am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	5/5/2021			
Tons Out:	Load #	Lot #	Sublot #	Tested By:	I. Montano				

SIEVE ANALYSIS (CTM 202)

Wet Weight:	4489.5	Dry Weight:	4406.2	% Moisture:	1.89%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	287.2	6.5%	93.5%	70.1%	98.2%	24.5%	95%	96 90-100
3/8" (9.5mm)	1097	24.9%	75.1%	56.3%	91.7%	22.9%	79%	77 71-83
#4 (4.75mm)	2212.3	50.2%	49.8%	37.3%	69.7%	17.4%	55%	55 48-62

Fine Agg Dry Weight:	520
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	126.4	24%	76%	38%	28.3%	56.7%	14.2%	42%	43 38-48
#16 (1.18mm)	220.6	42%	58%	29%	21.5%	40.7%	10.2%	32%	33
#30 (600µm)	323.4	62%	38%	19%	14.1%	31.0%	7.8%	22%	22 17-25
#50 (300µm)	415.9	80%	20%	10%	7.5%	21.6%	5.4%	13%	13
#100 (150µm)	457.8	88%	12%	6%	4.5%	13.8%	3.5%	8%	7
#200 (75µm)	479.6	92.2%	7.8%	3.9%	2.9%	9.7%	2.4%	5.3%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.2	6.6	64	47
2	4.1	6.6	63	
3	4.2	6.7	63	
Average			63	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay south	Date Sampled:	5/5/2021		
Mix Type:	21212415 1/2" HMA-A w/25% RAP	Time Sampled:	831am	Load #:	7
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	5/5/2021		
Ticket #:	1701255121	Tons Out:	134.95	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-34 Holly
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2881.4	
Mass of Mixed Sample + Basket, M_1 (g):	4387.6	
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1506.2	
Mass of Sample + Basket after burn off, M_2 (g):	4298.9	
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1417.5	
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.89%	
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.44%	5.75%
	% by Total Weight of Mix	% by Dry Weight of Agg

Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay south				Date Sampled:	5/5/2021			
Material Description:	21212415 1/2" HMA-A w/25% RAP				Time Sampled:	1030am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	5/5/2021			
Tons Out:	Load #	Lot #	Sublot #	Tested By:	I. Montano				

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5063.4	Dry Weight:	4987.6	% Moisture:	1.52%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	311.3	6.2%	93.8%	70.3%	98.2%	24.5%	95%	96 90-100
3/8" (9.5mm)	1327.5	26.6%	73.4%	55.0%	91.7%	22.9%	78%	77 71-83
#4 (4.75mm)	2475	49.6%	50.4%	37.8%	69.7%	17.4%	55%	55 48-62

Fine Agg Dry Weight:	514.7
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	110.3	21%	79%	40%	29.7%	56.7%	14.2%	44%	43 38-48
#16 (1.18mm)	209.4	41%	59%	30%	22.4%	40.7%	10.2%	33%	33
#30 (600µm)	326.4	63%	37%	18%	13.8%	31.0%	7.8%	22%	22 17-25
#50 (300µm)	414	80%	20%	10%	7.4%	21.6%	5.4%	13%	13
#100 (150µm)	456.7	89%	11%	6%	4.3%	13.8%	3.5%	8%	7
#200 (75µm)	474.6	92.2%	7.8%	3.9%	2.9%	9.7%	2.4%	5.4%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.2	6.5	65	47
2	4.3	6.8	64	
3	4.3	6.9	63	
Average			64	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay south	Date Sampled:	5/5/2021		
Mix Type:	21212415 1/2" HMA-A w/25% RAP	Time Sampled:	1110am	Load #:	41
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	5/5/2021		
Ticket #:	1701255160	Tons Out:	776.51	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-34 Holly
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2873.6	
Mass of Mixed Sample + Basket, M_1 (g):	4414.0	
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1540.4	
Mass of Sample + Basket after burn off, M_2 (g):	4325.9	
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1452.3	
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.72%	
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.27%	5.56%
	% by Total Weight of Mix	% by Dry Weight of Agg

Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II



HMA Physical Properties Worksheet

Client ATP Engineering Contractors

Job No. 200638.2

Project SD County Overlay South

Lab No. W05-21-00892

Sample Location/ID 21212415 1/2" Type A PMAC

Sampled by Jose

Date Sampled 5/5/2021

Tested By R Clevenger

Date Tested 5/13/2021

CT 309 Maximum Theoretical Gravity	
Sample Weight	1849.5
Pycnometer + H ₂ O	7356.4
Sample+Pycnometer+H ₂ O	8454.9
Temperature H ₂ O	25.0
Maximum Specific Gravity	2.463

Lab Tested Maximum Density			
Briquette ID	1	2	3
Thickness	2.57	2.56	2.55
Weight in Air	1219.4	1221.8	1221.1
Paraffin Coated Wt	1236.2	1235.6	1231.2
Weight in Water	695.8	695.8	696.7
Vol. cc	521.7	524.5	523.3
Sp. Gr.	2.337	2.330	2.334
PCF	145.5	145.0	145.2
Specific Gravity, (average)			2.333
Weight per cubic foot, (average)			145.2
Air Voids (average), %			5.3

CT 366 Stability						
2000	3000	4000	5000lbs (R)	6000	Turn Dial (T)	Stability
12	23	31	42.0	52	2.97	39
13	24	32	44.0	55	3.10	37
12	22	30	40.0	51	3.02	40
Average Stability						38



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-01518-O1

Date of Issue: 04/22/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123 Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA	Project No: 200638.2 Permit No: OSHPD: DSA File #: DSA AP #:
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

Distribution: Jurisdiction: County of San Diego	 Approved Signatory: Andrew Suarez
--------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------

Test Date: Friday, April 16, 2021	Inspector: Jose Franco-Casas	
Inspection No.:		
Contractor: ATP General Engineering		
Equipment Obsv.: a) 2-Mechanical grinders, b) 2-Mechanical brooms, c) Bear Cat CRC distributor truck, d) Cat 10-20B paver, e) Cat CB44B smooth drums vibratory compactor, f) Dynapac CC1200 vibratory roller, g) Cat CB7 vibratory compactor, h) Deere 210K skip loader, i) Water truck.		
Time Arrived: 8:15 AM	Time Departed: 4:00 PM	Time on Site: 7.75 Hrs
Lunch Start: 11:15 AM	Lunch End: 11:45 AM	Travel Time: 2 Hrs
Mileage: 74.0	Weather: Sunny	

Types of Testing / Observations
 Asphalt - Field Density Testing

Referenced Documents
 HMA ID: 21212415F// 1/2" HMA 58-34M W/fiber.

Observations / Remarks
 *****Regular: _8.0__ OT: _1.25__ DT:___ Reason for Travel: _Transport of CPN Inuclear gauge and AC gear__ Miles to Jobsite: _37__ Miles from Jobsite: _37__ Travel to Jobsite (start): _7:15am__ Travel to Jobsite (end): _8:15am__ Travel from Jobsite (start): _4:00pm__ Travel from Jobsite (end): _5:00pm__ Expenses: _____ Equipment Used: _CPN nuclear gauge_____ *****

ASPHALT - FIELD DENSITY TESTING
 Picked up the density gauge, AC gear and truck from the San Diego office.
 On site as requested to provide AC density test for the 3" asphalt concrete overlay placed on **Corral Canyon Road-shoulders North & South bound**, approximately between Jockey Way and Leadrope Way. Met ATP foreman Looney to discuss the scope of work for today, he informed me digouts were rescheduled. Today they placed the HMA ID **21212415F// 1/2" HMA 58-34M w/fiber**, this asphalt was batched at CCA-Lakeside Plant.
 Observe 2-Mechanical grinder machine and 2-Mechanical brooms, each shoulder was swept prior tack coat application. Asphalt concrete placement with a Cat paver, initial breakdown performed with a Cat CB44B smooth drums vibratory compactor, intermediate rolling with a Dynapac CC1200 vibratory roller and final rolling with a Cat CB7 double drums vibratory roller. Conducted 22 AC compaction test using a CPN MC-1DR-P Portaprobe nuclear gauge, these density test meet 95% project requirements, ATP personnel was notified.
 Today asphalt concrete production was 857.60 tons.



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Daily Field Report

Report No: DFR:W02-21-01518-01

Date of Issue: 04/22/2021

Issue No: 1

<p>Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123</p> <p>Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA</p>	<p>Project No: 200638.2</p> <p>Permit No:</p> <p>OSHPD:</p> <p>DSA File #:</p> <p>DSA AP #:</p>
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<p>Distribution:</p> <p>Jurisdiction: County of San Diego</p>	 <p>Approved Signatory: Andrew Suarez</p>
------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------

All inspections based on minimum of 4 hours and over 4 hours - 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.



Jose Franco-Casas, Inspector/Technician

Remarks:

This report will be distributed to architect, engineer, client, and governing jurisdiction (e.g. DSA) as required by applicable codes and project documents.

Certificate of Compliance		
<p>The Work <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not inspected in accordance with the requirements of the County of San Diego approved documents</p>	<p>The Work Inspected <input checked="" type="checkbox"/> Met <input type="checkbox"/> Did Not Meet the requirements of the County of San Diego approved documents</p>	<p>Material Sampling was not performed</p>

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Report No: DFR:W02-21-01518-O1
Date of Issue: 4/22/2021 **Issue No: 1**

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2
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OSHPD:
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Jurisdiction: County of San Diego
Distribution:


Approved Signatory: Andrew Suarez (Branch Manager)





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Report No: DFR:W02-21-01518-01
Date of Issue: 4/22/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
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Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
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Project No.: 200638.2
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Report No: DFR:W02-21-01518-O1
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Customer: ATP Engineering Contractors (Lehigh Hanson)
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Twining, Inc. - San Diego Lab
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 San Diego, CA 92127
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 Fax: 562.426.6424


Asphalt Nuclear Density Report

Report No: ND:W02-21-01518
 Date of Issue: 4/22/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Testing Details

Tested By: Jose Franco-Casas **Date Tested:** 4/16/2021
Plant: Lakeside **Gauge Make/Model:**
Method of Measurement: Backscatter **Density Standard Count:** 36330
Gauge Serial: **Moisture Standard Count:** 8230
Calibration Date: **Weather:** Sunny
Calibration Source:

Test Results

ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Bonita, Ca.													
1	3814 Corral Canyon Road	NA	30.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.80	95	≥95	P
2	3830 Corral Canyon Road	NA	25.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	140.10	96	≥95	P
3	3842 Corral Canyon Road	NA	27.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.90	95	≥95	P
4	3860 Corral Canyon Road	NA	25.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	140.20	96	≥95	P
5	3878 Corral Canyon Road	NA	30.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	140.50	96	≥95	P
6	5636 Corral Canyon Road	NA	30.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.30	95	≥95	P
7	3926 Corral Canyon Road	NA	30.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	141.50	97	≥95	P

Remarks:



Asphalt Nuclear Density Report


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 Ph: 858-974-3750
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Report No: ND:W02-21-01518
 Date of Issue: 4/22/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Bonita, Ca.													
8	3949 Corral Canyon Road	NA	27.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.50	95	≥95	P
9	3966 Corral Canyon Road	NA	28.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.90	95	≥95	P
10	4010 Corral Canyon Road	NA	28.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.90	95	≥95	P
11	4010 Corral Canyon Road				21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	140.30	96	≥95	P
12	4036 Corral Canyon Road	NA	28.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.60	95	≥95	P
13	5835 Corral Canyon Road	NA	30.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.90	95	≥95	P
14	5904 Corral Canyon Road	NA	28.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.80	95	≥95	P
15	5903 Corral Canyon Road	NA	28.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.60	95	≥95	P
16	4011 Corral Canyon Road	NA	28.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.70	95	≥95	P

Remarks:



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Asphalt Nuclear Density Report

Report No: ND:W02-21-01518
 Date of Issue: 4/22/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
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Approx. Test Location: Bonita, Ca.

17	5801 Corral Canyon Road	NA	26.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.10	95	≥95	P
18	3949 Corral Canyon Road	NA	27.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	140.20	96	≥95	P
19	3933 Corral Canyon Road	NA	20.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	140.50	96	≥95	P
20	3917 Corral Canyon Road	NA	28.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	141.20	96	≥95	P
21	3903 Corral Canyon Road	NA	26.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.90	95	≥95	P
22	5703 Corral Canyon Road	NA	25.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.10	95	≥95	P

Remarks:



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay South			Date Sampled:	4/16/2021
Material Description:	Combined RAP			Time Sampled:	600am
Material Source:	CCA Lakeside			Sampled By:	I. Montano
Sample Location:	Belt Cut			Date Tested:	4/16/2021
Lot #:		Sublot #:		Tons Out:	
				Tested By:	I. Montano

**RECYCLED ASPHALT PRODUCT
 MOISTURE CONTENT OF RAP
 (CTM 370)**

Wet Weight:	3203.8	Dry Weight:	3141.7	RAP Moisture:	2.0%
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**SIEVE ANALYSIS OF POST IGNITION OVEN RAP
 (CTM 202)**

Basket Mass	2872.3	Basket + Sample	4430.1	HMA Sample Mass	1557.8
Basket + Sample Burned	4327.9	Burned Agg Mass	1455.6	Approx. Oil % TWM	5.25

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	23.8	1.6%	98.4%	+0.2	98.6%
3/8" (9.5mm)	103	7.1%	92.9%	+0.6	93.5%
#4 (4.75mm)	386.5	26.6%	73.4%	-0.8	72.6%
#8 (2.36mm)	101	41.3%	58.7%	+0.5	59.2%
#16 (1.18mm)	189.5	54.3%	45.7%	-0.7	45.0%
#30 (600µm)	268.8	65.9%	34.1%	-0.6	33.5%
#50 (300µm)	346.4	77.2%	22.8%	-0.2	22.6%
#100 (150µm)	401.6	85.3%	14.7%	+0.3	15.0%
#200 (75µm)	435.7	90.3%	9.7%	+0.5	10.2%
Mass of #4 Split	502.0				

Approved By:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South				Date Sampled:	4/16/2021			
Material Description:	21212415 FIBER 1/2" HMA-A w/25% RAP				Time Sampled:	605am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/16/2021			
Tons Out:	Load #	Lot #	Sublot #		Tested By:	I. Montano			

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5321.0	Dry Weight:	5235.1	% Moisture:	1.64%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	481.5	9.2%	90.8%	68.1%	98.6%	24.6%	93%	96 90-100
3/8" (9.5mm)	1402	26.8%	73.2%	54.9%	93.5%	23.4%	78%	77 71-83
#4 (4.75mm)	2662.1	50.9%	49.1%	36.9%	72.6%	18.2%	55%	55 48-62

Fine Agg Dry Weight:	514.8
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	100.3	19%	81%	40%	29.7%	59.2%	14.8%	44%	43 38-48
#16 (1.18mm)	185.5	36%	64%	31%	23.6%	45.0%	11.3%	35%	33
#30 (600µm)	294.2	57%	43%	21%	15.8%	33.5%	8.4%	24%	22 17-25
#50 (300µm)	399	78%	22%	11%	8.3%	22.6%	5.6%	14%	13
#100 (150µm)	451.9	88%	12%	6%	4.5%	15.0%	3.7%	8%	7
#200 (75µm)	474.9	92.2%	7.8%	3.8%	2.9%	10.2%	2.6%	5.4%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.3	6.9	63	47
2	4.1	6.6	63	
3	4.2	6.6	64	
Average			63	

Approved by:



Patrick Terrell
Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 email: patrick.terrell@lehighhanson.com

Project:	San Diego County Overlay South	Date Sampled:	4/16/2021		
Mix Type:	21212415 FIBER 1/2" HMA-A w/25% RAP	Time Sampled:	926am	Load #:	7
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	4/16/2021		
Ticket #:	1701254306	Tons Out:	130.16	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
 CALIFORNIA TEST METHOD 382**

Calibration Information:	
Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-16 San Joaquin
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M _e (g):	2880.9	
Mass of Mixed Sample + Basket, M ₁ (g):	4504.7	
Net Mass of of the Mixed Sample, M ₁ -M _e , M _i (g):	1623.8	
Mass of Sample + Basket after burn off, M ₂ (g):	4411.9	
Final Mass of Sample Aggregate, M ₂ - M _e , M _f (g)	1531.0	
Raw Asphalt Content, A = (M _i - M _f) ÷ M _i x 100 (%) :	5.71%	
Corrected Asphalt Content AC = A - CF - MC (%) :	5.26%	5.56%
	% by Total Weight of Mix	% by Dry Weight of Agg

Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
 Patrick Terrell - QC Manager II

Project:	San Diego County Overlay South				Date Sampled:	4/16/2021			
Material Description:	21212415 FIBER 1/2" HMA-A w/25% RAP				Time Sampled:	1100am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/16/2021			
Tons Out:	Load #	Lot #	Sublot #		Tested By:	I. Montano			

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5874.3	Dry Weight:	5779.3	% Moisture:	1.64%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	499.7	8.6%	91.4%	68.5%	98.6%	24.6%	93%	96 90-100
3/8" (9.5mm)	1503.2	26.0%	74.0%	55.5%	93.5%	23.4%	79%	77 71-83
#4 (4.75mm)	2874.2	49.7%	50.3%	37.7%	72.6%	18.2%	56%	55 48-62

Fine Agg Dry Weight:	518.2
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	118.3	23%	77%	39%	29.1%	59.2%	14.8%	44%	43 38-48
#16 (1.18mm)	188.4	36%	64%	32%	24.0%	45.0%	11.3%	35%	33
#30 (600µm)	319.9	62%	38%	19%	14.4%	33.5%	8.4%	23%	22 17-25
#50 (300µm)	405.7	78%	22%	11%	8.2%	22.6%	5.6%	14%	13
#100 (150µm)	468.2	90%	10%	5%	3.6%	15.0%	3.7%	7%	7
#200 (75µm)	480.8	92.8%	7.2%	3.6%	2.7%	10.2%	2.6%	5.3%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.2	6.7	63	47
2	4.2	6.8	62	
3	4.1	6.6	63	
Average			63	

Approved by:



Patrick Terrell
Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 email: patrick.terrell@lehighhanson.com

Project:	San Diego County Overlay South	Date Sampled:	4/16/2021		
Mix Type:	21212415 FIBER 1/2" HMA-A w/25% RAP	Time Sampled:	119pm	Load #:	42
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	4/16/2021		
Ticket #:	1701254389	803.11	802.11	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
 CALIFORNIA TEST METHOD 382**

Calibration Information:	
Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-16 San Joaquin
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M _e (g):	2879.9	
Mass of Mixed Sample + Basket, M ₁ (g):	4475.2	
Net Mass of of the Mixed Sample, M ₁ -M _e , M _i (g):	1595.3	
Mass of Sample + Basket after burn off, M ₂ (g):	4384.3	
Final Mass of Sample Aggregate, M ₂ - M _e , M _f (g)	1504.4	
Raw Asphalt Content, A = (M _i - M _f) ÷ M _i) x 100 (%) :	5.70%	
Corrected Asphalt Content AC = A - CF - MC (%) :	5.25%	5.54%
	% by Total Weight of Mix	% by Dry Weight of Agg

Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
 Patrick Terrell - QC Manager II

**Twining, Inc. - San Diego Lab**

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report**Report No: DFR:W02-21-01547-01**

Date of Issue: 04/22/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123	Project No: 200638.2
Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA	Permit No: OSHPD: DSA File #: DSA AP #:

Distribution:	
Jurisdiction: County of San Diego	Approved Signatory: Andrew Suarez

Test Date: Tuesday, April 20, 2021	Inspector: Jose Franco-Casas	
Inspection No.:		
Contractor: ATP General Engineering		
Equipment Obsv.: a) Mechanical grinder, b) Mechanical broom, c) Bear Cat CRC distributor truck, d) Cat 10-20B paver, e) Cat CB44B smooth drums vibratory compactor, f) Dynapac CC1200 smooth drums roller, g) Cat CB7 smooth drums vibratory roller, h) Deere 210 skip loader, i) Water truck.		
Time Arrived: 7:00 AM	Time Departed: 3:30 PM	Time on Site: 8.5 Hrs
Lunch Start: 11:15 AM	Lunch End: 11:45 AM	Travel Time: 2 Hrs
Mileage: 76.0	Weather: Sunny	

Types of Testing / Observations
Asphalt - Field Density Testing

Referenced Documents
HMA ID 21212415F // 1/2" HMA 58-34M W/Fiber.

Observations / Remarks
*****Regular: _8.0_ OT: _2.0_ DT: ___ Reason for Travel: _Transport of CPN nuclear gauge, AC gear and AC samples. ___ Miles to Jobsite: _38_ Miles from Jobsite: _38_ Travel to Jobsite (start): _6:00am_ Travel to Jobsite (end): _7:00am_ Travel from Jobsite (start): _3:30pm_ Travel from Jobsite (end): _4:30pm_ Expenses: _____ Equipment Used: _CPN nuclear gauge. _____*****
ASPHALT - FIELD DENSITY TESTING Picked up the density gauge, AC gear and truck from the San Diego office. Upon arrival ATP representative to discuss the scope of work for today. Contractor continued the placement of 3 inches asphalt concrete overlay at Corral Canyon Road, North/South bound, approximately between Leadrope Way to Jockey Way, in Bonita, Ca. ATP utilized the HMA ID 21212415F//1/2" HMA 58-34M W/Fiber, imported from CCA-Lakeside Plant. Observe grinding operations and a mechanical broom sweeping each road prior tack coat application. Asphalt concrete placement with a Cat 10-20B paver, initial breakdown performed with a Cat CB44B vibratory compactor, intermediate rolling performed with a Dynapac CC 1200 roller, and final rolling with a Cat CB7 vibratory compactor. Sampled Load No. 10, Truck No. SDA124, Ticket No. 1701254464, Asphalt Concrete temperature was 275°F, at 189.44 tons. Cast one set of 12 cardboard boxes, 8 for the County, and 4 for Twining, these boxes were transported to Twining in San Diego for testing. Conducted 31 AC compaction test using a CPN MC-1DR-P Portaprobe nuclear gauge, these density test meet 95% County requirements, ATP representative was notified. Today asphalt concrete production was approximately 1586.14 tons



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Daily Field Report

Report No: DFR:W02-21-01547-O1


Date of Issue: 04/22/2021

Issue No: 1

<p>Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123</p> <p>Project: County of San Diego, Asphalt Concrete Overlay South San Diego County Roads San Diego, CA</p>	<p>Project No: 200638.2</p> <p>Permit No:</p> <p>OSHPD:</p> <p>DSA File #:</p> <p>DSA AP #:</p>
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<p>Distribution:</p> <p>Jurisdiction: County of San Diego</p>	 <p>Approved Signatory: Andrew Suarez</p>
------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------

All inspections based on minimum of 4 hours and over 4 hours - 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.



Jose Franco-Casas, Inspector/Technician

Remarks:

This report will be distributed to architect, engineer, client, and governing jurisdiction (e.g. DSA) as required by applicable codes and project documents.

Certificate of Compliance		
<p>The Work <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not inspected in accordance with the requirements of the County of San Diego approved documents</p>	<p>The Work Inspected <input checked="" type="checkbox"/> Met <input type="checkbox"/> Did Not Meet the requirements of the County of San Diego approved documents</p>	<p>The Material Sampling <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not performed in accordance with the requirements of the County of San Diego approved documents</p>

All Reports Remain The Property of Twining, Inc. Authorization For The Publication Of Our Reports, Conclusions, Or Extracts From Or Regarding Them is Reserved Pending Our Written Approval As A Mutual Protection To Clients, The Public and Ourselves



Daily Field Report

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Ph: 858-974-3750
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Report No: DFR:W02-21-01547-O1
Date of Issue: 4/22/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
4211 Ponderosa Avenue, Suite C
San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
San Diego County Roads
San Diego, CA,

Project No.: 200638.2
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OSHPD:
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Jurisdiction: County of San Diego
Distribution:


Approved Signatory: Andrew Suarez (Branch Manager)





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Andrew Suarez
 Approved Signatory: Andrew Suarez (Branch Manager)

SCALE WEIGHT

Gross 62,500 LB *
 Tare 24,420 LB/P.T.
 Net 38,080 LB *

GROSS & TARE

Drivers Always On
 Driver Off
 Scale 1 Scale 2 Scale 3
 Gary Overross
 Deputy Weighmaster

Received By Signature
 Print Name (Customer) _____
 Driver's Signature _____
 Customer's Initials _____

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (concurring with Section 12000) of Division 5 of the California Business and Professions Code administered by the Division of Measurement Standards of the California Department of Food and Agriculture

WEIGHMASTER CERTIFICATE

Carriage _____
 Sales Tax _____
 Total _____
 Standing Time _____
 This Ticket's Grand Total _____

CCCA
 CALIFORNIA COMMERCIAL ASPHALT
 HEIDELBERGCEMENT GROUP
 WEIGHMASTER STATION

4433000
 12451 Vigilante Rd
 Lakeside, Ca 92040

San Diego County Overlay-South
 South County

Product: 21212415F
 Description: 1/2" HMA 58-34M w/Fiber
 Environmental Fee
 Total: 19.04
 Unit Price: _____
 Amount: _____

Ticket No: 1701254464
 Payment Type: ACCO JRM
 Customer No: 8
 Customer Job No.: _____
 Customer Pkg No.: 20
 Truck No: T
 Truck No 2.4
 Driver's Name: _____
 Trailer or License Plate No.: _____
 Vehicle of License Plate No.: _____
 Today's Tag No: 4
 Load No.: 10
 Cum. Pkg. Qty: _____

REPORT: _____
 CHECK IN TIME: 7:47:01 am
 DATE: 4/22/2021
 TICKET TIME: 7:47:57 am
 TIME LOADED: 7:48:29 am
 Order No.: 21212415F

Map Ref: _____
 Zone: _____

MIRAMAR
 HOT MIX ASPHALT SEAL, EMULSION,
 RECYCLING, COLD MIX & EZ STREET
 9229 Harris Plant Rd.

LAKE ELSINORE
 HOT MIX ASPHALT,
 RECYCLING & EZ STREET
 10000 Nichols Rd.



Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424

Asphalt Nuclear Density Report

Report No: ND:W02-21-01547
 Date of Issue: 4/22/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego, Asphalt Concrete Overlay South
 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Testing Details

Tested By: Jose Franco-Casas **Date Tested:** 4/20/2021
Plant: Lakeside **Gauge Make/Model:**
Method of Measurement: Backscatter **Density Standard Count:** 36478
Gauge Serial: **Moisture Standard Count:** 8295
Calibration Date: **Weather:** Sunny
Calibration Source:

Test Results

ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft ³)	In Situ Density (lb/ft ³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Bonita, Ca.													
1	5035 Corral Canyon Road	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	13	3.0	1 min.	146.60	138.70	95	≥95	P
2	4042 Corral Canyon Road	NA	12.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.80	95	≥95	P
3	4030 Corral Canyon Road	NA	12.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.80	95	≥95	P
4	4019 Corral Canyon Road	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber		3.0	1 min.	146.60	140.10	96	≥95	P
5	4002 Corral Canyon Road	NA	12.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber		3.0	1 min.	146.60	139.50	95	≥95	P
6	3966 Corral Canyon Road	NA	12.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber		3.0	1 min.	146.60	139.10	95	≥95	P
7	3958 Corral Canyon Road	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.20	95	≥95	P

Remarks:



Asphalt Nuclear Density Report


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DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Bonita, Ca.													
8	3934 Corral Canyon Road	NA	14.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.70	95	≥95	P
9	3918 Corral Canyon Road	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.10	95	≥95	P
10	3909 Corral Canyon Road	NA	12.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.50	95	≥95	P
11	3878 Corral Canyon Road	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.70	95	≥95	P
12	3860 Corral Canyon Road	NA	12.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.60	95	≥95	P
13	3847 Corral Canyon Road	NA	12.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.10	95	≥95	P
14	3836 Corral Canyon Road	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.30	95	≥95	P
15	3822 Corral Canyon Road	NA	12.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.30	95	≥95	P
16	5904 Corral Canyon Road	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	140.60	96	≥95	P

Remarks:



Asphalt Nuclear Density Report


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Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Bonita, Ca.													
17	5903 Corral Canyon Road	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.40	95	≥95	P
18	4019 Corral Canyon Road	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.90	95	≥95	P
19	4003 Corral Canyon Road	NA	12.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.80	95	≥95	P
20	5801 Corral Canyon Road	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.70	95	≥95	P
21	3949 Corral Canyon Road	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.80	95	≥95	P
22	3933 Corral Canyon Road	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.90	95	≥95	P
23	3917 Corral Canyon Road	NA	12.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.20	95	≥95	P
24	3903 Corral Canyon Road	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.90	95	≥95	P
25	5702 Corral Canyon Road	NA	12.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	141.00	96	≥95	P

Remarks:



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Asphalt Nuclear Density Report

Report No: ND:W02-21-01547
 Date of Issue: 4/22/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
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 San Diego County Roads
 San Diego, CA,

Project No.: 200638.2
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OSHPD:
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DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Test Results ASTM D 2950

Test No	Road	Station	Offset (ft)	From	Mix	Lift	Layer Thickness (in)	Count Rate	MLD (lb/ft³)	In Situ Density (lb/ft³)	Comp (%)	Limit (%)	Results
Approx. Test Location: Bonita, Ca.													
26	3855 Corral Canyon Road	NA	24.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.50	95	≥95	P
27	3839 Corral Canyon Road	NA	25.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.10	95	≥95	P
28	3823 Corral Canyon Road	NA	24.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.90	95	≥95	P
29	3847 Corral Canyon Road	NA	12.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.30	95	≥95	P
30	3831 Corral Canyon Road	NA	8.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	138.90	95	≥95	P
31	3815 Corral Canyon Road	NA	10.0	Centerline	21212415F 1/2" HMA 58-34M w/fiber	1	3.0	1 min.	146.60	139.20	95	≥95	P

Remarks:



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay South			Date Sampled:	4/20/2021
Material Description:	Combined RAP			Time Sampled:	555am
Material Source:	CCA Lakeside			Sampled By:	I. Montano
Sample Location:	Belt Cut			Date Tested:	4/20/2021
Lot #:		Sublot #:		Tons Out:	
				Tested By:	I. Montano

**RECYCLED ASPHALT PRODUCT
 MOISTURE CONTENT OF RAP
 (CTM 370)**

Wet Weight:	3205.4	Dry Weight:	3138.9	RAP Moisture:	2.1%
-------------	--------	-------------	--------	---------------	------

**SIEVE ANALYSIS OF POST IGNITION OVEN RAP
 (CTM 202)**

Basket Mass	2872.5	Basket + Sample	4438.3	HMA Sample Mass	1565.8
Basket + Sample Burned	4339.9	Burned Agg Mass	1467.4	Approx. Oil % TWM	5.03

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	18.8	1.3%	98.7%	+0.2	98.9%
3/8" (9.5mm)	134.4	9.2%	90.8%	+0.6	91.4%
#4 (4.75mm)	394.3	26.9%	73.1%	-0.8	72.3%
#8 (2.36mm)	116	43.3%	56.7%	+0.5	57.2%
#16 (1.18mm)	207.9	56.2%	43.8%	-0.7	43.1%
#30 (600µm)	285.4	67.2%	32.8%	-0.6	32.2%
#50 (300µm)	361.9	78.0%	22.0%	-0.2	21.8%
#100 (150µm)	416.5	85.7%	14.3%	+0.3	14.6%
#200 (75µm)	450.6	90.5%	9.5%	+0.5	10.0%
Mass of #4 Split	517.5				

Approved By:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay South				Date Sampled:	4/20/2021			
Material Description:	21212415 FIBER 1/2" HMA-A w/25% RAP				Time Sampled:	600am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/20/2021			
Tons Out:	Load #	Lot #	Sublot #		Tested By:	I. Montano			

SIEVE ANALYSIS (CTM 202)

Wet Weight:	7568.3	Dry Weight:	7460.2	% Moisture:	1.45%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	608.7	8.2%	91.8%	68.9%	98.9%	24.7%	94%	96 90-100
3/8" (9.5mm)	1841.1	24.7%	75.3%	56.5%	91.4%	22.9%	79%	77 71-83
#4 (4.75mm)	3645.4	48.9%	51.1%	38.4%	72.3%	18.1%	56%	55 48-62

Fine Agg Dry Weight:	508.7
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	98.1	19%	81%	41%	31.0%	57.2%	14.3%	45%	43 38-48
#16 (1.18mm)	188	37%	63%	32%	24.2%	43.1%	10.8%	35%	33
#30 (600µm)	296	58%	42%	21%	16.0%	32.2%	8.0%	24%	22 17-25
#50 (300µm)	398.1	78%	22%	11%	8.3%	21.8%	5.4%	14%	13
#100 (150µm)	449.0	88%	12%	6%	4.5%	14.6%	3.6%	8%	7
#200 (75µm)	471.8	92.7%	7.3%	3.7%	2.8%	10.0%	2.5%	5.3%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.2	6.6	64	47
2	4.1	6.6	63	
3	4.1	6.5	63	
Average			63	

Approved by:



Patrick Terrell
Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 email: patrick.terrell@lehighhanson.com

Project:	San Diego County Overlay South	Date Sampled:	4/20/2021		
Mix Type:	21212415 FIBER 1/2" HMA-A w/25% RAP	Time Sampled:	721am	Load #:	6
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	4/20/2021		
Ticket #:	1701254454	Tons Out:	114.24	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
 CALIFORNIA TEST METHOD 382**

Calibration Information:	
Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-16 San Joaquin
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2873.1	
Mass of Mixed Sample + Basket, M_1 (g):	4387.0	
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1513.9	
Mass of Sample + Basket after burn off, M_2 (g):	4298.5	
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1425.4	
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.85%	
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.40%	5.70%
	% by Total Weight of Mix	% by Dry Weight of Agg

Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
 Patrick Terrell - QC Manager II

Project:	San Diego County Overlay South				Date Sampled:	4/20/2021			
Material Description:	21212415 FIBER 1/2" HMA-A w/25% RAP				Time Sampled:	945am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/20/2021			
Tons Out:	Load #	Lot #	Sublot #		Tested By:	I. Montano			

SIEVE ANALYSIS (CTM 202)

Wet Weight:	6408.7	Dry Weight:	6310.7	% Moisture:	1.55%	Aggregate %	75%	RAP %	25%
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								Specification	
Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Allowable Tolerance	
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%		
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%		
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%		
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100	
1/2" (12.5mm)	489.6	7.8%	92.2%	69.2%	98.9%	24.7%	94%	96 90-100	
3/8" (9.5mm)	1472.4	23.3%	76.7%	57.5%	91.4%	22.9%	80%	77 71-83	
#4 (4.75mm)	3134.3	49.7%	50.3%	37.8%	72.3%	18.1%	56%	55 48-62	

Fine Agg Dry Weight:	517.4
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										Specification	
Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Allowable Tolerance		
#8 (2.36mm)	116.8	23%	77%	39%	29.2%	57.2%	14.3%	44%	43 38-48		
#16 (1.18mm)	210.3	41%	59%	30%	22.4%	43.1%	10.8%	33%	33		
#30 (600µm)	307.7	59%	41%	20%	15.3%	32.2%	8.0%	23%	22 17-25		
#50 (300µm)	413.7	80%	20%	10%	7.6%	21.8%	5.4%	13%	13		
#100 (150µm)	454.0	88%	12%	6%	4.6%	14.6%	3.6%	8%	7		
#200 (75µm)	478.5	92.5%	7.5%	3.8%	2.8%	10.0%	2.5%	5.3%	4.4 2.4-6.4		

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification 47
1	4.3	6.9	63	
2	4.1	6.5	64	
3	4.0	6.4	63	
Average			63	

Approved by:



Patrick Terrell
Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 email: patrick.terrell@lehighhanson.com

Project:	San Diego County Overlay South	Date Sampled:	4/20/2021		
Mix Type:	21212415 FIBER 1/2" HMA-A w/25% RAP	Time Sampled:	1011am	Load #:	40
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	4/20/2021		
Ticket #:	1701254507	Tons Out:	767.84	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
 CALIFORNIA TEST METHOD 382**

Calibration Information:	
Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-16 San Joaquin
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M _e (g):	2880.1	
Mass of Mixed Sample + Basket, M ₁ (g):	4413.7	
Net Mass of of the Mixed Sample, M ₁ -M _e , M _i (g):	1533.6	
Mass of Sample + Basket after burn off, M ₂ (g):	4324.8	
Final Mass of Sample Aggregate, M ₂ - M _e , M _f (g)	1444.7	
Raw Asphalt Content, A = (M _i - M _f) ÷ M _i) x 100 (%) :	5.80%	
Corrected Asphalt Content AC = A - CF - MC (%) :	5.35%	5.65%
	% by Total Weight of Mix	% by Dry Weight of Agg

Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
 Patrick Terrell - QC Manager II

Project:	San Diego County Overlay South				Date Sampled:	4/20/2021			
Material Description:	21212415 FIBER 1/2" HMA-A w/25% RAP				Time Sampled:	1200pm			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/20/2021			
Tons Out:	Load #	Lot #	Sublot #		Tested By:	I. Montano			

SIEVE ANALYSIS (CTM 202)

Wet Weight:	6767.9	Dry Weight:	6662.9	% Moisture:	1.58%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification	
									Allowable	Tolerance
2" (50mm)	0	0.0%	100.0%		75.0%	100.0%	25.0%	100%		
1-1/2" (37.5mm)	0	0.0%	100.0%		75.0%	100.0%	25.0%	100%		
1" (25mm)	0	0.0%	100.0%		75.0%	100.0%	25.0%	100%		
3/4" (19mm)	0	0.0%	100.0%		75.0%	100.0%	25.0%	100%	100	
1/2" (12.5mm)	449.8	6.8%	93.2%		69.9%	98.9%	24.7%	95%	96	90-100
3/8" (9.5mm)	1672.3	25.1%	74.9%		56.2%	91.4%	22.9%	79%	77	71-83
#4 (4.75mm)	3315.6	49.8%	50.2%		37.7%	72.3%	18.1%	56%	55	48-62

Fine Agg Dry Weight:	501.4
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification	
									Allowable	Tolerance
#8 (2.36mm)	112.3	22%	78%	39%	29.2%	57.2%	14.3%	44%	43	38-48
#16 (1.18mm)	217.8	43%	57%	28%	21.3%	43.1%	10.8%	32%	33	
#30 (600µm)	315	63%	37%	19%	14.0%	32.2%	8.0%	22%	22	17-25
#50 (300µm)	400.2	80%	20%	10%	7.6%	21.8%	5.4%	13%	13	
#100 (150µm)	452.4	90%	10%	5%	3.7%	14.6%	3.6%	7%	7	
#200 (75µm)	467.4	93.2%	6.8%	3.4%	2.6%	10.0%	2.5%	5.0%	4.4	2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification 47
1	4.1	6.4	64	
2	4.2	6.5	65	
3	4.2	6.5	65	
Average			65	

Approved by:



Patrick Terrell
Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 email: patrick.terrell@lehighhanson.com

Project:	San Diego County Overlay South	Date Sampled:	4/20/2021		
Mix Type:	21212415 FIBER 1/2" HMA-A w/25% RAP	Time Sampled:	115pm	Load #:	80
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	4/20/2021		
Ticket #:	1701254565	Tons Out:	1538.4	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
 CALIFORNIA TEST METHOD 382**

Calibration Information:	
Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-16 San Joaquin
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2872.1	
Mass of Mixed Sample + Basket, M_1 (g):	4396.8	
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1524.7	
Mass of Sample + Basket after burn off, M_2 (g):	4309.2	
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1437.1	
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.75%	
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.30%	5.59%
	% by Total Weight of Mix	% by Dry Weight of Agg

Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
 Patrick Terrell - QC Manager II



HMA Physical Properties Worksheet

Client ATP Engineering Contractors
 Project SD County Overlay South

Job No. 200638.2
 Lab No. W05-21-00892

Sample Location/ID 1/2" HMA 58-34 w/ fiber

Sampled by Jose
 Date Sampled 4/20/2021

Tested By BB

Date Tested 4/24/2021

CT 309 Maximum Theoretical Gravity	
Sample Weight	1657.8
Pycnometer + H ₂ O	7356.4
Sample+Pycnometer+H ₂ O	8337.9
Temperature H ₂ O	25.0
Maximum Specific Gravity	2.451

Lab Tested Maximum Density			
Briquette ID	1	2	3
Thickness	2.50	2.50	2.52
Weight in Air	1197.5	1200.7	1197.9
Paraffin Coated Wt	1206.0	1209.9	1207.7
Weight in Water	688.9	690.5	687.5
Vol. cc	507.7	509.2	509.3
Sp. Gr.	2.359	2.358	2.352
PCF	146.8	146.8	146.4
Specific Gravity, (average)			2.356
Weight per cubic foot, (average)			146.7
Air Voids (average), %			3.9

CT 366 Stability						
2000	3000	4000	5000lbs (R)	6000	Turn Dial (T)	Stability
18	26	32	41.0	50	2.73	42
19	27	36	45.0	54	2.68	40
18	26	33	42.0	52	2.70	41
Average Stability						41

**Twining, Inc. - San Diego Lab**

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report**Report No: DFR:W02-21-01424-O1**

Date of Issue: 04/14/2021

Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123	Project No: 200733.2
Project: County of San Diego - Road Maintenance Project AC Overlay, North Central San Diego County Roads San Diego, CA	Permit No: OSHPD: DSA File #: DSA AP #:

Distribution:	
Jurisdiction: County of San Diego	Approved Signatory: Andrew Suarez

Test Date: Monday, April 12, 2021	Inspector: James Packer	
Inspection No.:		
Contractor: ATP		
Equipment Obsv.: CAT PS150C pneumatic roller Dynapac CC4200 VI pneumatic roller CAT AP1055F asphalt paver		
Time Arrived: 7:00 AM	Time Departed: 3:30 PM	Time on Site: 8 Hrs
Lunch Start: 11:00 AM	Lunch End: 11:30 AM	Travel Time: 2 Hrs
Mileage:	Weather: Clear	

Types of Testing / Observations
Asphalt - Field Density Testing

Referenced Documents
Twining Quality Control Plan for HMA Construction, prepared by Twining, Inc. for ATP General Engineering, dated August 8, 2020.

Observations / Remarks
<p>April 12, 2021 Twining Project No. 200733.2: County of San Diego - Road Maintenance Project AC Overlay, North Central Twining Inspector: James Packer Contractor: ATP Materials Supplier: CCA (Lakeside) Total PMAC (1/2"): 600 tons Total PMAC w/fiber: 600 tons</p> <p>After acquiring the nuclear gauge from Twining's lab located in San Diego, I arrived at the project site on Camino Del Norte in San Diego County, California. Once at the site, I discussed the anticipated operations for the day with the Contractor's foreman, Sal, and the representative for San Diego County, Jacob. This day's work involved the placement of a 3-inch inlay of PMAC and a 3-inch inlay of PMAC w/fiber on Camino Del Norte in Rancho Bernardo, CA.</p> <p>The AC material used today was supplied by California Commercial Asphalt ("CCA"), sourced from their Lakeside plant. The 1/2" PMAC bore the following design description: 1/2" HMA Type A 58-34M and a mix ID of 21212415. The 1/2" PMAC w/ fiber bore the following design description: 1/2" HMA 58-34M w/fiber and a mix ID of 21212415F. ATP placed a total of 600 tons each of the PMAC and PMAC w/fiber today.</p> <p>Prior to placing the AC material, the road was swept free of loose debris and a tack coating was applied.</p> <p>I performed in-place, nuclear gauge density tests on the AC material (approx. 3-4 tests per 250 tons). The test data indicate compaction levels compliant with project specification</p>



Twining, Inc. - San Diego Lab

15950 Bernardo Center Drive, Suite H

San Diego, CA 92127

Ph: 858-974-3750

Fax: 562.426.6424

Daily Field Report

Report No: DFR:W02-21-01424-O1

Date of Issue: 04/14/2021

Issue No: 1

<p>Customer: ATP Engineering Contractors (Lehigh Hanson) 4211 Ponderosa Avenue, Suite C San Diego, CA 92123</p> <p>Project: County of San Diego - Road Maintenance Project AC Overlay, North Central San Diego County Roads San Diego, CA</p>	<p>Project No: 200733.2</p> <p>Permit No:</p> <p>OSHPD:</p> <p>DSA File #:</p> <p>DSA AP #:</p>
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<p>Distribution:</p> <p>Jurisdiction: County of San Diego</p>	 <p>Approved Signatory: Andrew Suarez</p>
------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------

Observations / Remarks (continued)

requirements.

The temperature of the asphalt was monitored at the time of placement, during break down and after final compaction by the finish roller. During each stage of the asphalt work, the AC temperature measured within the appropriate range

Samples of the 1/2" PMAC were obtained on-site, at approximately 10:25 am and 152 tons. The samples were designated performance samples. The County representative, Jacob, took custody of two sample sets (8 boxes), and I delivered one set (4 boxes) to Twining's lab located at its San Diego office.

*****Regular: 8.0 OT: DT:___ Reason for Travel: transporting nuclear gauge Miles to Jobsite: Miles from Jobsite: Travel to Jobsite (start): 7:00am Travel to Jobsite (end): 8:00am Travel from Jobsite (start): 3:30pm Travel from Jobsite (end): 4:30pm Expenses:_____ Equipment Used: _____*****

ASPHALT - FIELD DENSITY TESTING

Picked up the density gauge from (office). Met with (jobsite contact) on the job site and went over the job requirements for the day. First asphalt truck arrived at (time), the compaction started at (time). Tack coat (was/was not) applied before placing the HMA. The mix temperature was (temp) F upon arrival. Contractor placed (number of tons) tons of asphalt in (number of lifts) lift. Paving finished at (time) and compaction work completed at (time). Collected (number of samples) sample and delivered it to (office) lab at (time). Samples information is as follows:

Sample 1: At ----- (time) from load number ---- at ----- tons

Sample 2: At ----- (time) from load number ---- at ----- tons

Sample 3: At ----- (time) from load number ---- at ----- tons

All inspections based on minimum of 4 hours and over 4 hours - 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.

Remarks:

This report will be distributed to architect, engineer, client, and governing jurisdiction (e.g. DSA) as required by applicable codes and project documents.

Certificate of Compliance		
<p>The Work <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not inspected in accordance with the requirements of the County of San Diego approved documents</p>	<p>The Work Inspected <input checked="" type="checkbox"/> Met <input type="checkbox"/> Did Not Meet the requirements of the County of San Diego approved documents</p>	<p>The Material Sampling <input checked="" type="checkbox"/> Was <input type="checkbox"/> Was Not performed in accordance with the requirements of the County of San Diego approved documents</p>

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Twining, Inc. - San Diego Lab
 15950 Bernardo Center Drive, Suite H
 San Diego, CA 92127
 Ph: 858-974-3750
 Fax: 562.426.6424


Asphalt Nuclear Density Report

Report No: ND:W02-21-01424
 Date of Issue: 4/14/2021 Issue No: 1

Customer: ATP Engineering Contractors (Lehigh Hanson)
 4211 Ponderosa Avenue, Suite C
 San Diego, CA, 92123
Project: County of San Diego - Road Maintenance Project AC Overlay, North
 San Diego County Roads
 San Diego, CA,

Project No.: 200733.2
Permit No.:
OSHPD:
DSA File #:
DSA AP #:

Jurisdiction: County of San Diego
Distribution:


 Approved Signatory: Andrew Suarez (Branch Manager)

Testing Details

Tested By: James Packer	Date Tested: 4/12/2021
Plant: Lakeside	Gauge Make/Model:
Method of Measurement: Backscatter	Density Standard Count: 31505
Gauge Serial:	Moisture Standard Count: 9457
Calibration Date:	Weather: Clear
Calibration Source:	

Test Results

ASTM D 2950

Test No	Road	Mix	Layer Thickness (in)	MLD (lb/ft ³)	In Situ Density (lb/ft ³)	Comp (%)	Limit (%)	Results
Approx. Test Location: County of San Diego								
1	Camino Del Norte	1/2" HMA Type A 58-34M	3.0	145.90	141.20	97	≥95	P
2	Camino Del Norte	1/2" HMA Type A 58-34M	3.0	145.90	140.00	96	≥95	P
3	Camino Del Norte	1/2" HMA Type A 58-34M	3.0	145.90	141.10	97	≥95	P
4	Camino Del Norte	1/2" HMA Type A 58-34M	3.0	145.90	139.90	96	≥95	P
5	Camino Del Norte	1/2" HMA Type A 58-34M	3.0	145.90	141.00	97	≥95	P
6	Camino Del Norte	1/2" HMA Type A 58-34M	3.0	145.90	138.80	95	≥95	P
7	Camino Del Norte	1/2" HMA Type A 58-34M	3.0	145.90	141.20	97	≥95	P
8	Camino Del Norte	1/2" HMA Type A 58-34M w/fiber	3.0	144.70	138.00	95	≥95	P
9	Camino Del Norte	1/2" HMA Type A 58-34M w/fiber	3.0	144.70	139.50	96	≥95	P
10	Camino Del Norte	1/2" HMA Type A 58-34M w/fiber	3.0	144.70	139.70	97	≥95	P
11	Camino Del Norte	1/2" HMA Type A 58-34M w/fiber	3.0	144.70	140.20	97	≥95	P
12	Camino Del Norte	1/2" HMA Type A 58-34M w/fiber	3.0	144.70	139.70	97	≥95	P
13	Camino Del Norte	1/2" HMA Type A 58-34M w/fiber	3.0	144.70	138.50	96	≥95	P
14	Camino Del Norte	1/2" HMA Type A 58-34M w/fiber	3.0	144.70	140.10	97	≥95	P
15	Camino Del Norte	1/2" HMA Type A 58-34M w/fiber	3.0	144.70	137.90	95	≥95	P

Remarks:



HMA Physical Properties Worksheet

Client ATP Engineering Contractors

Job No. 200733.2

Project SD County Overlay North

Lab No. W05-21-00800

Sample Location/ID 1/2" HMA

Sampled by JP

Date Sampled 4/12/2021

Tested By BB

Date Tested 4/14/2021

CT 309 Maximum Theoretical Gravity	
Sample Weight	1601.6
Pycnometer + H ₂ O	7356.4
Sample+Pycnometer+H ₂ O	8303.1
Temperature H ₂ O	25.0
Maximum Specific Gravity	2.446

Lab Tested Maximum Density			
Briquette ID	1	2	3
Thickness	2.51	2.55	2.55
Weight in Air	1194.3	1206.3	1204.2
Paraffin Coated Wt	1217.6	1227.1	1225.6
Weight in Water	681.4	689.3	686.0
Vol. cc	510.3	514.7	515.8
Sp. Gr.	2.340	2.344	2.335
PCF	145.7	145.9	145.3
Specific Gravity, (average)			2.340
Weight per cubic foot, (average)			145.6
Air Voids (average), %			4.3

CT 366 Stability						
2000	3000	4000	5000lbs (R)	6000	Turn Dial (T)	Stability
17	25	32	40.0	48	2.67	43
16	24	31	39.0	46	2.63	44
17	26	33	42.0	51	2.66	42
Average Stability						43



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay North		Date Sampled:	4/12/2021
Material Description:	Combined RAP		Time Sampled:	600am
Material Source:	CCA Lakeside		Sampled By:	I. Montano
Sample Location:	Belt Cut		Date Tested:	4/12/2021
Lot #:		Sublot #:	Tons Out:	Tested By:
				I. Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3150.8	Dry Weight:	3074.4	RAP Moisture:	2.5%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2872.1	Basket + Sample	4388.3	HMA Sample Mass	1516.2
Basket + Sample Burned	4286.1	Burned Agg Mass	1414.0	Approx. Oil % TWM	5.39

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	17.8	1.3%	98.7%	+0.2	98.9%
3/8" (9.5mm)	91.5	6.5%	93.5%	+0.6	94.1%
#4 4.75mm)	361.1	25.5%	74.5%	-0.8	73.7%
#8 (2.36mm)	119.6	42.7%	57.3%	+0.5	57.8%
#16 (1.18mm)	210.3	55.7%	44.3%	-0.7	43.6%
#30 (600µm)	285.4	66.5%	33.5%	-0.6	32.9%
#50 (300µm)	360.3	77.2%	22.8%	-0.2	22.6%
#100 (150µm)	415.3	85.1%	14.9%	+0.3	15.2%
#200 (75µm)	449.8	90.1%	9.9%	+0.5	10.4%
Mass of #4 Split	518.9				

Approved By:

Patrick Terrell
 Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay North				Date Sampled:	4/12/2021			
Material Description:	21212415 FIBER 1/2" HMA-A w/25% RAP				Time Sampled:	605am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/12/2021			
Tons Out:	Load #	Lot #	Sublot #		Tested By:	I. Montano			

SIEVE ANALYSIS (CTM 202)

Wet Weight:	4442.1	Dry Weight:	4377.5	% Moisture:	1.48%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	377.2	8.6%	91.4%	68.5%	98.9%	24.7%	93%	96 90-100
3/8" (9.5mm)	1219.6	27.9%	72.1%	54.1%	94.1%	23.5%	78%	77 71-83
#4 (4.75mm)	2289.4	52.3%	47.7%	35.8%	73.7%	18.4%	54%	55 48-62

Fine Agg Dry Weight:	522.6
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	122	23%	77%	37%	27.4%	57.8%	14.4%	42%	43 38-48
#16 (1.18mm)	222.2	43%	57%	27%	20.6%	43.6%	10.9%	31%	33
#30 (600µm)	332.1	64%	36%	17%	13.0%	32.9%	8.2%	21%	22 17-25
#50 (300µm)	427	82%	18%	9%	6.5%	22.6%	5.6%	12%	13
#100 (150µm)	471.7	90%	10%	5%	3.5%	15.2%	3.8%	7%	7
#200 (75µm)	489.7	93.7%	6.3%	3.0%	2.3%	10.4%	2.6%	4.9%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.3	6.8	64	47
2	4.2	6.5	65	
3	4.1	6.4	64	
Average			64	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay North	Date Sampled:	4/12/2021		
Mix Type:	21212415 FIBER 1/2" HMA-A w/25% RAP	Time Sampled:	926am	Load #:	8
Material Source:	CCA Lakeside	Sampled By:	I. Montano		
Sample Location:	Truck Bed at Plant	Date Tested:	4/12/2021		
Ticket #:	1701254012	Tons Out:	153.81	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C <input type="checkbox"/> 482°C <input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes
Asphalt Binder type and source:	PG 58-16 San Joaquin
Aggregate Source:	Hanson Aggregates, Vigilante Mine
Correction Factor, CF (%):	0.45%

Ignition Oven Procedure

Mass of Basket, M_e (g):	2880.3		
Mass of Mixed Sample + Basket, M_1 (g):	4386.6		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1506.3		
Mass of Sample + Basket after burn off, M_2 (g):	4295.1		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1414.8		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	6.07%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.62%	5.96%	
	% by Total Weight of Mix		% by Dry Weight of Agg
Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (951) 684-3186

Project:	San Diego County Overlay North		Date Sampled:	4/12/2021
Material Description:	Combined RAP		Time Sampled:	605am
Material Source:	CCA Lakeside		Sampled By:	I. Montano
Sample Location:	Belt Cut		Date Tested:	4/12/2021
Lot #:		Sublot #:	Tons Out:	Tested By:
				I. Montano

RECYCLED ASPHALT PRODUCT

MOISTURE CONTENT OF RAP (CTM 370)

Wet Weight:	3150.8	Dry Weight:	3074.4	RAP Moisture:	2.5%
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SIEVE ANALYSIS OF POST IGNITION OVEN RAP (CTM 202)

Basket Mass	2872.1	Basket + Sample	4388.3	HMA Sample Mass	1516.2
Basket + Sample Burned	4286.1	Burned Agg Mass	1414.0	Approx. Oil % TWM	5.39

Sieve Size	Weight Retained (grams)	Percent Retained (%)	Percent Passing (%)	Correction Factor (%)	Corrected Percent Passing
2" (50mm)	0	0.0%	100.0%	0.0	100.0%
1-1/2" (37.5mm)	0	0.0%	100.0%	0.0	100.0%
1" (25mm)	0	0.0%	100.0%	0.0	100.0%
3/4" (19mm)	0	0.0%	100.0%	0.0	100.0%
1/2" (12.5mm)	17.8	1.3%	98.7%	+0.2	98.9%
3/8" (9.5mm)	91.5	6.5%	93.5%	+0.6	94.1%
#4 (4.75mm)	361.1	25.5%	74.5%	-0.8	73.7%
#8 (2.36mm)	119.6	42.7%	57.3%	+0.5	57.8%
#16 (1.18mm)	210.3	55.7%	44.3%	-0.7	43.6%
#30 (600µm)	285.4	66.5%	33.5%	-0.6	32.9%
#50 (300µm)	360.3	77.2%	22.8%	-0.2	22.6%
#100 (150µm)	415.3	85.1%	14.9%	+0.3	15.2%
#200 (75µm)	449.8	90.1%	9.9%	+0.5	10.4%
Mass of #4 Split	518.9				

Approved By:

Patrick Terrell
 Quality Control Manager II



Contact: Patrick Terrell
 Quality Control Manager II
 Phone: (858) 602-5474
 Fax: (858) 513-0612

Project:	San Diego County Overlay North				Date Sampled:	4/12/2021			
Material Description:	21212415 1/2" HMA-A w/25% RAP				Time Sampled:	1100am			
Material Source:	CCA Lakeside				Sampled By:	I. Montano			
Sample Location:	Belt Cut				Date Tested:	4/12/2021			
Tons Out:	Load #	Lot #	Sublot #		Tested By:	I. Montano			

SIEVE ANALYSIS (CTM 202)

Wet Weight:	5878.9	Dry Weight:	5785.4	% Moisture:	1.62%	Aggregate %	75%	RAP %	25%
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Sieve Size	Weight Retained	Percent Retained		x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
2" (50mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1-1/2" (37.5mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
1" (25mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	
3/4" (19mm)	0	0.0%	100.0%	75.0%	100.0%	25.0%	100%	100
1/2" (12.5mm)	407.5	7.0%	93.0%	69.7%	98.9%	24.7%	94%	96 90-100
3/8" (9.5mm)	1531.6	26.5%	73.5%	55.1%	94.1%	23.5%	79%	77 71-83
#4 (4.75mm)	2895.7	50.1%	49.9%	37.5%	73.7%	18.4%	56%	55 48-62

Fine Agg Dry Weight:	519.9
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Sieve Size	Weight Retained	Percent Retained	Agg Pass	x #4	x Agg %	RAP Pass	x RAP %	Total Percent Passing	Specification Allowable Tolerance
#8 (2.36mm)	123	24%	76%	38%	28.6%	57.8%	14.4%	43%	43 38-48
#16 (1.18mm)	228.4	44%	56%	28%	21.0%	43.6%	10.9%	32%	33
#30 (600µm)	324.1	62%	38%	19%	14.1%	32.9%	8.2%	22%	22 17-25
#50 (300µm)	419.3	81%	19%	10%	7.2%	22.6%	5.6%	13%	13
#100 (150µm)	466.3	90%	10%	5%	3.9%	15.2%	3.8%	8%	7
#200 (75µm)	487.5	93.8%	6.2%	3.1%	2.3%	10.4%	2.6%	4.9%	4.4 2.4-6.4

SAND EQUIVALENT (CTM 217)

Specimen Number	Sand Reading	Clay Reading	Sand Equivalent	Specification
1	4.1	6.6	63	47
2	4.2	6.8	62	
3	4.2	6.8	62	
Average			62	

Approved by:

Patrick Terrell
 Quality Control Manager II

Project:	San Diego County Overlay North		Date Sampled:	4/12/2021	
Mix Type:	21212415 1/2" HMA-A w/25% RAP		Time Sampled:	1127am	Load #: 4
Material Source:	CCA Lakeside		Sampled By:	I. Montano	
Sample Location:	Truck Bed at Plant		Date Tested:	4/12/2021	
Ticket #:	1701254042	Tons Out:	77.4	Tested By:	I. Montano

**ASPHALT BINDER CONTENT OF HMA BY THE IGNITION METHOD
CALIFORNIA TEST METHOD 382**

Calibration Information:

Ignition Oven Identification:	Thermolyne NCAT Serial #: 0151796801150209		
Set Point Temperature from Calibration:	<input checked="" type="checkbox"/> 538°C	<input type="checkbox"/> 482°C	<input type="checkbox"/> 427°C
Total ignition time from calibration (minutes):	46 - 56 minutes		
Asphalt Binder type and source:	PG 58-34 Holly		
Aggregate Source:	Hanson Aggregates, Vigilante Mine		
Correction Factor, CF (%):	0.45%		

Ignition Oven Procedure

Mass of Basket, M_e (g):	2872.0		
Mass of Mixed Sample + Basket, M_1 (g):	4402.2		
Net Mass of of the Mixed Sample, $M_1 - M_e$, M_i (g):	1530.2		
Mass of Sample + Basket after burn off, M_2 (g):	4314.7		
Final Mass of Sample Aggregate, $M_2 - M_e$, M_f (g)	1442.7		
Raw Asphalt Content, $A = (M_i - M_f) \div M_i \times 100$ (%):	5.72%		
Corrected Asphalt Content $AC = A - CF - MC$ (%):	5.27%	5.56%	
	% by Total Weight of Mix		% by Dry Weight of Agg
Mix Moisture, MC	0		
Target by TWM:	5.39%	Allowable Range	5.09 - 5.89
Target by DWA:	5.70%	Allowable Range	5.36 - 6.26

Form:	CCA-T308
Rev. 1.1	9/29/2017

Approved By: 
Patrick Terrell - QC Manager II



**COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
MATERIAL TESTING LABORATORY**



CALTRANS TEST 375 - DENSITY AND RELATIVE COMPACTION OF IN-SITU ASPHALT CONCRETE

PROJECT: <i>Overby N Central</i>		TESTED BY: <i>JM</i>		DATE: <i>4-12-21</i>		NUCLEAR DEVICE:					
PROJECT NUMBER: <i>1023467</i>		LOT NUMBER:		LIFT THICKNESS:		Model & ID:					
Nuc. Test No.:		LANE NUMBER:		DEPTH USED: <i>B5</i>		CALIB. DATE:					
		LIFT NUMBER:		Mix Type: <i>1/2" PMAC</i>		Plant: <i>CCALS</i>		(A) STD. COUNT:			
TEST AREA LIMITS						FIELD NOTES AND CALCULATIONS: (use back for additional note)					
(B) START:		(D) LENGTH (C-B):									
(C) FINISH:		(E) LANE WIDTH:									
COLUMN		RANDOM NUMBER				TABLE #		BLOCK #			
(G)	LEFT (Longitudinal Location)										
(H)	RIGHT (Transverse Location)										
TEST SITE LOCATIONS		1	2	3	4	5	6	7	8	9	10
(I)	Longitudinal Distance from Start D x G (round up to whole number)	<i>210'</i>	<i>525'</i>	<i>809'</i>	<i>1220'</i>	<i>1580'</i>	<i>1800'</i>				
(J)	STATION (I + B)	<i>WB Camino Del Norte @ Dove Canyon - 1</i>									
(K)	Transverse Distance from Edge E x H (round up to whole number)	<i>8"</i>	<i>8"</i>	<i>8"</i>	<i>8"</i>	<i>8"</i>					
(N)	DENSITY (g/cc) (round to nearest 0.01g/cc)	a	<i>140.2</i>	<i>142.3</i>	<i>141.8</i>	<i>143.0</i>	<i>142.7</i>	<i>141.5</i>			
		b	<i>142.1</i>	<i>143.1</i>	<i>142.1</i>	<i>141.6</i>	<i>143.1</i>	<i>140.8</i>			
		avg.	<i>141.7</i>	<i>142.7</i>	<i>142.0</i>	<i>142.3</i>	<i>142.9</i>	<i>141.2</i>			
Relative Compaction (%)		<i>95</i>	<i>96</i>	<i>96</i>	<i>96</i>	<i>97</i>	<i>95</i>				
(G)	LEFT (Longitudinal Location)										
(H)	RIGHT (Transverse Location)										
TEST SITE LOCATIONS		11	12	13	14	15	16	17	18	19	20
(K)	Longitudinal Distance from Start D x G (round up to whole number)										
(J)	STATION (I + B)										
	Transverse Distance from Edge E x H (round up to whole number)										
(N)	DENSITY (g/cc) (round to nearest 0.01g/cc)	a									
		b									
		avg.									
Relative Compaction (%)											

(O) Average In-Place Density (all site), g/cc _____
(P) Conversion Factor (device to cores) _____
(Q) Corrected In-Place Density (O+ P), g/cc _____

Laboratory Test Maximum Density, g/cc _____
Relative Compaction, % _____



DAILY FIELD REPORT

Materials Lab

Project Title	Overlay N Central	Job No.	1023467		
Project Location	Camino Del Norte (W)	Date	4-12-21	Page	1 of 1
County Inspector	D. Morehead	Field Technician	JM		
General / Subcontractor	ATP	Foreman	S&I		
Observation / Testing of	AC Overlay				
Equipment / Method of Compaction	dual drum rollers; RTT				
Arrival	Departure	Time Charged			
Weather Conditions					
Other Pertinent Conditions					
Description of Work Inspection					
<p>1/2" Type A HMA #2121245 PMAC placed by paver Camino Del Norte @ Dove Canyon heading west in rt lane. Dual drum rollers and RTT provided compaction efforts. Tests conducted produced min 95% RC. RC obtained sample WR Camino Del Norte. Sample boxes retrieved from RC. Operations were in a very busy area heavy w/ traffic. Many drivers upset at the long wait in the lines w/ traffic control, yelling and honking horns. Did not feel safe maneuvering through congested traffic to obtain a signature, so a signature was not obtained today.</p>					
Vehicles and Equipment Used					
For test results(s) see "Request For and Report of Compaction Tests" (Form 46)					
Items to be addressed at next site visit					
County Inspector/Superintendent Signature		Date			

Daily A.C. Test Record

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
MATERIALS TESTING LABORATORY

Plant: CCA-LS Project: AC Overlay North Central FY19-20 Oracle #: 1023467 Test Date: 4/13/2021
 Plant Inspector: N. Sancha Sample Date: 4/12/2021 Mix ID #: 21212415 Lab ID: 21-304
 Mix Size: 1/2" Type A Asphalt Grade: PG58-34 % Asphalt: 5.4 Total Batch Wt.: _____

AGG. SIZE	COARSE				FINE				RAP (Coarse)		RAP (Fine)		MF	Combined Grading	SPECS
%	75			%	36			%	7.5	%	17.5		0 %		
Sample wt. (g)	2630				505.0										
Sieve Size	Wt. Ret.	% Ret.	% Pass	% Use	Wt. Ret.	% Ret.	% Pass	% Use	% Pass	% Use	% Pass	% Use	% Used		
1"	0	0	100	75					100	7.5	100	17.5	0	100	100
3/4"	0	0	100	75					100	7.5	100	17.5	0	100	100
1/2"	192	7	93	70					95.6	7.2	100	17.5	0	94	90-100
3/8"	700	27	73	55					77.2	5.8	99.8	17.5	0	78	71-83
# 4	1358	52	48	36					31.4	2.4	85.5	15.0	0	54	48-62
# 8					115	23	77	28	20.7	1.6	63	11.0	0	41	38-48
# 16					210	42	58	21	16.7	1.3	48.5	8.5	0	31	
# 30					315	62	38	14	13.7	1.0	36.7	6.4	0	21	18-26
# 50					408	81	19	7	10.2	0.8	25.4	4.4	0	12	
# 100					456	90	10	4	6.7	0.5	15.9	2.8	0	7	
# 200					474	94	6	2	4.4	0.3	10.3	1.8	0	4	2.4-6.4

Sand Equivalent											Remarks				
Clay Reading			Sand Reading			SE Result			Ave. SE	Specs.	RAP Gradation provided by CCA Plant. .				
5.5	5.4	5.3	3.9	4.1	3.9	71	76	74	74	50					

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
ASPHALT CONCRETE DAILY TEST SUMMARY REPORT

Project Name: Asphalt Concrete Overlay North Central FY 19/20 W.A. #: 1023467
 Sample Date: 4/12/2021 Plant: CCA-Lakeside Lab. No.: 21-307
 HMA Mix: 1/2" Type A Percent Oil: 5.40 Oil Type: PG-58-34M W/Fiber
 Sample Location: Camino Del Norte Mix ID #: 21212415

AGGREGATES MATERIALS					ASPHALT CONCRETE			
A. <u>Grading After Extraction (CT 202)</u>					B. <u>Oil Content (CT 382)</u>			
Sample Weight: <u>not tested</u>					Percent Oil: <u>5.50</u>			
SIZE SIEVE	CUMULATIVE			SPEC'S.	C. <u>Bulk Specific Gravity (CT308)</u>			
	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING		Ave. Bulk Sp. Gravity: <u>2.370</u>			
1"	0	0	0	0	D. <u>Maximum Specific Gravity (CT309)</u>			
1/2"	0	0	0	0	Max. Sp. Gravity: <u>2.452</u>			
3/8"	0	0	0	0	E. <u>Air Voids</u>			
#4	0	0	0	0	Percent Air Voids <u>3.4</u>			
#8	0	0	0	0	F. <u>Stabilometer Value (CT 366)</u>			
#16	0	0	0	0	Sample	A	B	C
#30	0	0	0	0	Sample ht.	2.49	2.49	2.48
#50	0	0	0	0	Hor. Pressure	33	44	36
#100	0	0	0	0	Hor. Displ.	2.82	2.84	3.21
#200	0	0	0	0	Stability	47	39	47
					Ave. Stability:	<u>42</u>	Spec's.	<u>37</u>
REMARKS / COMMENTS:								

Form 23 (Rev. 7/20)

Prepared By: Rvalles

Date: 4/15/2021