

TO: Citadel CPM

Regan Yap AIA, Project Manager

LIMITED ASBESTOS SURVEY REPORT Roofs @ CSULA Fine Arts, King Hall, Music, Student Health Center, TVFM 5151 State University Drive Los Angeles, CA 90032

Date Prepared: May 24, 2023



## I. Executive Summary and Introduction

At the request of Regan Yap of Citadel CPM, Terra Environmental performed an asbestos survey on May 15<sup>th</sup> and 16<sup>th</sup>, 2023 on California State University Los Angeles roofs (Fine Arts, King Hall, Music, Student Health Center and TVFM) located at 5151 State University Drive Los Angeles, CA 90032.

The purpose of the survey was to identify asbestos containing material (ACM) that will be impacted by the renovation project activities on the Roofs @ CSULA.

#### II. Scope of Work

The asbestos assessment was limited only to the building materials that are anticipated to be impacted by the scope of work and areas involved in the renovation project. The building materials tested for asbestos included: Felt, Mastic, Waterproof, Gravel, and Parapet on the roof.

## III. Sampling Methodology, and Analytical Procedures

The asbestos building survey and sample collection was performed by Mr. Israel Monsalvo, DOSH Certified Asbestos Consultant #04-3551 Exp. 05/20/24.

#### **INSPECTION PROCEDURE (763.85)**

<u>Areas Inspected</u>: In each area of the building, the inspector performed a preliminary walk-through to designate the functional spaces. Inspector also noted which areas had homogeneous materials.

The inspector then visually inspected each accessible room or space in the building. The inspector touched suspect materials to determine if they were friable. For each suspect material, the inspector noted its condition and the potential for disturbance.

Terra Environmental collected a total of eighty six (86) bulk samples of suspect ACM that were analyzed two hundred and ninety three (293) times on a layer by layer basis. The samples were transferred following proper chain of custody protocol to LA Testing located at 4335 E. Airport Drive Unit 110 Ontario, CA 91761 Phone (909) 295-6825 for analysis. LA Testing is an accredited laboratory for bulk asbestos analysis under the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (Certification Number 600239-0).

The samples were analyzed by Polarized Light Microscopy (PLM) with optical dispersion staining in accordance with the United States Environmental Protection Agency (EPA) Method (EPA 600/M4-82-020 per 40 CFR 763, subpart F, Appendix A).

The PLM Method is the most commonly used method to analyze building materials for the presence of asbestos. This method utilizes the optical properties of minerals to identify the selected constituent. The detection limit of the PLM method for asbestos identification is one



percent (1%) asbestos. Because the State of California recognizes asbestos-containing construction material (ACCM) as any material, which contains greater than or equal to one tenth of one percent (0.1) asbestos, materials containing "trace" amounts of asbestos are reported as ACCM in the State of California.

### IV. Discussion of Survey Findings and Recommendations

#### **ASBESTOS**

Asbestos-containing material (ACM) means any material containing more than 1% asbestos. Asbestos Standard for Construction 29 CFR 1926.1101.

Asbestos-Containing Construction Material (ACCM) is defined by California DOSH Title 8, Section 1529 (341.6 Registration Requirements) to mean any manufactured construction material which contains more than 1/10th of 1 percent asbestos by weight.

The visual inspection, intrusive sampling and bulk sample analysis results revealed the following Asbestos-Containing Materials:

Fine Arts #1

Homogeneous Material	Location	Lab Sample Numbers	Asbestos Detected	Friable	Condition	Quantity*
Felt on Roof Composite	Roof	01 02 03	None Detected	N	Intact	1000 SF
Black Mastic	Penetration	04 05 06	Chrysotile 5-10%	N	Intact	30 SF
Waterproof Roofing Composite	Penetration	07 08 09	None Detected	N	Intact	20 SF

#### Fine Arts #2

Homogeneous Material	Location	Lab Sample Numbers	Asbestos Detected	Friable	Condition	Quantity*
Felt on Roof Composite	Roof	10 11 12	None Detected	N	Intact	1000 SF
Black Mastic	Penetration	13 14 15	Chrysotile 10%	N	Intact	20 SF
Waterproof Roofing Composite	Penetration	16 17 18	None Detected	N	Intact	25 SF



# **King Hall**

Homogeneous Material	Location	Lab Sample Numbers	Asbestos Detected	Friable	Condition	Quantity*
Gravel Roof Composite	Roof	19 20 21	None Detected	N	Intact	3000 SF
Parapet Roof	Roof	22 23 24	Chrysotile 20-30%	N	Intact	80 SF
Black Mastic	Penetration	25 26 27	None Detected	N	Intact	20 SF

# Music #1

Homogeneous Material	Location	Lab Sample Numbers	Asbestos Detected	Friable	Condition	Quantity*
Gravel Roof Composite	Roof	66 67 68	None Detected	N	Intact	800 SF
Black Mastic	Penetration	69 70 71	Chrysotile 4-45%	N	Intact	25 SF

# Music #2

Homogeneous Material	Location	Lab Sample Numbers	Asbestos Detected	Friable	Condition	Quantity*
Felt on Roof Composite	Roof	60 61 62	None Detected	N	Intact	2500 SF
Black Mastic	Penetration	63 64 65	None Detected	N	Intact	100 SF



# Music #3

Homogeneous Material	Location	Lab Sample Numbers	Asbestos Detected	Friable	Condition	Quantity*
Felt on Roof Composite	Roof	43 44 45 46 47	None Detected	N	Intact	5000 SF
Black Mastic	Penetration	48 49 50	None Detected	N	Intact	100 SF
Waterproof Roofing Composite	Penetration	51 52 53	None Detected	N	Intact	150 SF

# **Music Mini**

Homogeneous Material	Location	Lab Sample Numbers	Asbestos Detected	Friable	Condition	Quantity*
Gravel Roof Composite	Roof	54 55 56	Chrysotile 4%	N	Intact	50 SF
Black Mastic	Penetration	57 58 59	Chrysotile 4-5%	N	Intact	10 SF

# **Student Health Center #1**

Homogeneous Material	Location	Lab Sample Numbers	Asbestos Detected	Friable	Condition	Quantity*
Gravel Roof Composite	Roof	72 73 74	None Detected	N	Intact	3500 SF
Black Mastic	Penetration	75 76 77	Chrysotile 8%	N	Intact	30 SF
Penetration	Waterproof Roofing Composite	78 79 80	None Detected	N	Intact	50 SF



#### **Student Health Center #2**

Homogeneous Material	Location	Lab Sample Numbers	Asbestos Detected	Friable	Condition	Quantity*
Gravel Roof Composite	Roof	81 82 83	Chrysotile 4%	N	Intact	250 SF
Black Mastic	Penetration	84 85 86	Chrysotile 5%	N	Intact	25 SF

#### **TVFM #1**

Homogeneous Material	Location	Lab Sample Numbers	Asbestos Detected	Friable	Condition	Quantity*
Felt on Roof Composite	Roof	28 29 30	None Detected	N	Intact	2500 SF
Black Mastic	Penetration	31 32 33	Chrysotile 4-8%	N	Intact	25 SF
Waterproof Roofing Composite	Penetration	34 35 36	Chrysotile 5-8%	N	Intact	20 SF

#### **TVFM #2**

Homogeneous Material	Location	Lab Sample Numbers	Asbestos Detected	Friable	Condition	Quantity*
Felt on Roof Composite	Roof	37 38 39	Chrysotile 10%	N	Intact	200 SF
Black Mastic	Penetration	40 41 42	Chrysotile 6-8%	N	Intact	10 SF

<sup>\*</sup> Quantities are not intended to be used for removal bidding purposes

## **Recommendations for handling ACCM:**

Removal and disposal of please see tables; must be performed by a California Licensed Asbestos Abatement Contractor, in accordance with all applicable regulations, including but not limited to, Title 8 CAC 1529 (Cal/OSHA Asbestos), including mandatory and non-mandatory



# appendices as applicable, and Local Air Quality Management District regulations (SCAQMD 1403).

Should materials different to those identified in this report or, other forms of suspect hazardous materials be discovered during the renovation process, the contractor should be instructed to cease all work activities which may initiate an exposure episode and notify the appropriate management personnel.

#### V. General Recommendations and Notes

Terra has endeavored to observe the exiting conditions within the subject property using generally accepted procedures. Regardless of the thoroughness of a survey, there is always a possibility some areas containing asbestos were overlooked or were inaccessible, or are different from those at specific sample locations. Therefore, conditions at every location may not be as anticipated by our field representative. In addition, demolition may uncover altered or differing conditions.

Written by,

Israel Monsalvo,

DOSH CAC #04-3551

CDPH Lead I/A #LRC-00001220

#### VI. Confidentiality and Limitations

This report has been prepared for the sole use of Citadel CPM. Material quantities are, in some cases, listed within this document. Those quantities are not intended to be used for removal bidding purposes. This document also is not intended as a contract manual; work methods and sequence, coordination of participants, applicable codes, engineering controls, required submittals and notifications should in all cases be addressed in a separate and independent bidding and contract document.

#### Attachments:

Chain of Custody Lab report Certifications



# ASBESTOS SAMPLE RESULTS AND COC



4335 E. Airport Dr. Unit 110 Ontario, CA 91761

Tel/Fax: (909) 295-6825 / (909) 295-6826

http://www.LATesting.com / InlandEmpireLab@latesting.com

LA Testing Order: 712300699 Customer ID: 32TESV78

Customer PO: Project ID:

Attention: Lab results Phone: (562) 868-3777

Terra Environmental Services Fax:

 12631 Imperial Hwy
 Received Date:
 05/19/2023 8:30 AM

 Suite A225
 Analysis Date:
 05/19/2023 - 05/22/2023

Santa Fe Springs, CA 90670 Collected Date:

Project: 73991 / ROOF FA #1 / 5151 STATE UNIVERSITY, LOS ANGELES, CA

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
01-Coating	ROOF S/E - FELT ON ROOF COMPOSITE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01-Shingle	ROOF S/E - FELT ON ROOF	Gray/Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300699-0001A	COMPOSITE	Heterogeneous			
01-Felt 1	ROOF S/E - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300699-0001B	COMPOSITE	Homogeneous			
01-Felt 2 712300699-0001C	ROOF S/E - FELT ON ROOF COMPOSITE	Black Fibrous	45% Cellulose	55% Non-fibrous (Other)	None Detected
		Homogeneous	000/ 0 . II . I	00/ Non Standard (Others)	New Petertel
01-Insulation 712300699-0001D	ROOF S/E - FELT ON ROOF COMPOSITE	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
01-Foam	ROOF S/E - FELT			100% Non fibrous (Other)	None Detected
712300699-0001E	ON ROOF COMPOSITE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-Coating	ROOF N/E - FELT ON ROOF	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300699-0002	COMPOSITE	Homogeneous			
02-Shingle	ROOF N/E - FELT ON ROOF	Gray/Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300699-0002A	COMPOSITE	Heterogeneous			
02-Felt 1	ROOF N/E - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300699-0002B	COMPOSITE	Homogeneous			
02-Felt 2	ROOF N/E - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300699-0002C	COMPOSITE	Homogeneous			
02-Felt 3 712300699-0002D	ROOF N/E - FELT ON ROOF COMPOSITE	Black Fibrous	10% Synthetic	90% Non-fibrous (Other)	None Detected
		Homogeneous		400% Nov. 51 (Other)	New Petertel
02-Tar 712300699-0002E	ROOF N/E - FELT ON ROOF COMPOSITE	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-Paper	ROOF N/E - FELT ON ROOF	Brown Fibrous	90% Cellulose 5% Glass	5% Non-fibrous (Other)	None Detected
712300699-0002F	COMPOSITE	Homogeneous	070 01000		
02-Insulation	ROOF N/E - FELT ON ROOF	Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300699-0002G	COMPOSITE	Homogeneous			
02-Foam	ROOF N/E - FELT ON ROOF	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300699-0002H	COMPOSITE	Homogeneous			
03-Coating	ROOF W/E - FELT ON ROOF	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300699-0003	COMPOSITE	Homogeneous			

Initial report from: 05/22/2023 14:19:46



4335 E. Airport Dr. Unit 110 Ontario, CA 91761

Tel/Fax: (909) 295-6825 / (909) 295-6826

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LA Testing Order: 712300699 Customer ID: 32TESV78

Customer PO: Project ID:

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
03-Shingle 712300699-0003A	ROOF W/E - FELT ON ROOF COMPOSITE	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
03-Felt 1	ROOF W/E - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300699-0003B 03-Felt 2	COMPOSITE  ROOF W/E - FELT  ON ROOF	Homogeneous  Black Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
712300699-0003C	COMPOSITE	Homogeneous			
03-Felt 3	ROOF W/E - FELT ON ROOF	Black Fibrous	10% Synthetic	90% Non-fibrous (Other)	None Detected
712300699-0003D 03-Insulation	COMPOSITE  ROOF W/E - FELT  ON ROOF	Homogeneous  Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300699-0003E	COMPOSITE	Homogeneous			
03-Foam	ROOF W/E - FELT ON ROOF	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300699-0003F 03-Rubber Membrane	COMPOSITE  ROOF W/E - FELT  ON ROOF	Homogeneous  Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300699-0003G	COMPOSITE	Homogeneous			
04-Mastic	PENETRATION S/W - BLACK MASTIC	Gray/Black Non-Fibrous		90% Non-fibrous (Other)	10% Chrysotile
712300699-0004		Homogeneous			
04-Sealant 712300699-0004A	PENETRATION S/W - BLACK MASTIC	Brown/Gray/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05-Silver Paint	PENETRATION W/N - BLACK MASTIC	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300699-0005		Homogeneous			
05-Mastic	PENETRATION W/N - BLACK MASTIC	Black Non-Fibrous		95% Non-fibrous (Other)	5% Chrysotile
712300699-0005A	DENETRATIONALE	Homogeneous		4000/ Non El (Oll)	N D. t t. d
06-Silver Paint	PENETRATION N/E - BLACK MASTIC	Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06-Mastic	PENETRATION N/E - BLACK MASTIC	Gray/Black Non-Fibrous		93% Non-fibrous (Other)	7% Chrysotile
712300699-0006A		Homogeneous			
07-Coating 712300699-0007	PENETRATION S/W - WATERPROOF ROOFING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07-Roofing	COMPOSITE  PENETRATION S/W - WATERPROOF	Black Non-Fibrous	3% Cellulose	97% Non-fibrous (Other)	None Detected
712300699-0007A	ROOFING COMPOSITE	Homogeneous			
08-Coating	PENETRATION W/N - WATERPROOF	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300699-0008	ROOFING COMPOSITE	Homogeneous			
08-Roofing	PENETRATION W/N - WATERPROOF	Black Non-Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
712300699-0008A	ROOFING COMPOSITE	Homogeneous			

Initial report from: 05/22/2023 14:19:46



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LA Testing Order: 712300699 Customer ID: 32TESV78

> Customer PO: Project ID:

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Ash	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
09-Coating	PENETRATION N/E - WATERPROOF	White/Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300699-0009	ROOFING COMPOSITE	Homogeneous			
09-Roofing	PENETRATION N/E - WATERPROOF	Black Non-Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected
712300699-0009A	ROOFING COMPOSITE	Homogeneous			

Analyst(s)

Humberto Espinoza Bajo (12) Olivia Santiago (23) Olivia Santiago, Laboratory Manager or Other Approved Signatory

LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore LA Testing recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by LA Testing Ontario, CA NVLAP Lab Code 600239-0; CA ELAP 3053

Initial report from: 05/22/2023 14:19:46

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		in SE	tes c			Email	: israel@terraeng.com					1	
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LA Testing Order: 712300690 Customer ID: 32TESV78

Customer PO: Project ID:

Attention: Lab results Phone: (562) 868-3777

Terra Environmental Services Fax:

12631 Imperial Hwy **Received Date:** 05/19/2023 8:30 AM

Suite A225 Analysis Date: 05/19/2023

Santa Fe Springs, CA 90670 Collected Date:

Project: 73991 / ROOF FA #2 / 5151 STATE UNIVERSITY, LOS ANGELES, CA

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
10-Coating	ROOF W/N - FELT ON ROOF COMPOSITE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10-Shingle	ROOF W/N - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300690-0001A	COMPOSITE	Homogeneous			
10-Felt 1	ROOF W/N - FELT ON ROOF	Silver Fibrous	5% Cellulose 10% Synthetic	75% Non-fibrous (Other)	None Detected
712300690-0001B	COMPOSITE	Homogeneous	10% Glass		
10-Felt 2	ROOF W/N - FELT ON ROOF	Brown/Black Fibrous	45% Cellulose	55% Non-fibrous (Other)	None Detected
712300690-0001C	COMPOSITE	Homogeneous		100% N 51 (01)	
10-Tar 712300690-0001D	ROOF W/N - FELT ON ROOF COMPOSITE	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10-Insulation	ROOF W/N - FELT	Brown	98% Cellulose	2% Non-fibrous (Other)	None Detected
10-Insulation 712300690-0001E	ON ROOF COMPOSITE	Fibrous Homogeneous	98% Cellulose	2% Non-librous (Other)	None Detected
10-Foam	ROOF W/N - FELT ON ROOF	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300690-0001F	COMPOSITE	Homogeneous			
11-Coating	ROOF N/W - FELT ON ROOF	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300690-0002	COMPOSITE	Homogeneous			
11-Shingle	ROOF N/W - FELT ON ROOF	Gray/Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300690-0002A	COMPOSITE	Heterogeneous			
11-Felt 1	ROOF N/W - FELT ON ROOF	Black Fibrous	5% Cellulose 10% Synthetic	75% Non-fibrous (Other)	None Detected
712300690-0002B	COMPOSITE	Homogeneous	10% Glass		
11-Felt 2	ROOF N/W - FELT ON ROOF COMPOSITE	Black Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
	ROOF N/W - FELT	Black		100% Non fibratio (Other)	None Detected
11-Tar 712300690-0002D	ON ROOF COMPOSITE	Віаск Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-Insulation	ROOF N/W - FELT ON ROOF	Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300690-0002E	COMPOSITE	Homogeneous			
11-Foam	ROOF N/W - FELT ON ROOF	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300690-0002F	COMPOSITE	Homogeneous			
12-Coating	ROOF N/S - FELT ON ROOF	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300690-0003	COMPOSITE	Homogeneous			
12-Shingle	ROOF N/S - FELT ON ROOF	Gray/Black Non-Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300690-0003A	COMPOSITE	Homogeneous			

Initial report from: 05/19/2023 16:06:21



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			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
12-Felt 1 712300690-0003B	ROOF N/S - FELT ON ROOF COMPOSITE	Black Non-Fibrous Homogeneous	5% Cellulose 10% Synthetic 10% Glass	75% Non-fibrous (Other)	None Detected
12-Felt 2 712300690-0003C	ROOF N/S - FELT ON ROOF COMPOSITE	Black Fibrous	5% Cellulose 10% Synthetic 10% Glass	75% Non-fibrous (Other)	None Detected
12-Tar	ROOF N/S - FELT ON ROOF	Homogeneous  Black Non-Fibrous	10% Glass	100% Non-fibrous (Other)	None Detected
712300690-0003D	COMPOSITE	Homogeneous			
12-Insulation	ROOF N/S - FELT ON ROOF COMPOSITE	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
12-Foam	ROOF N/S - FELT ON ROOF	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300690-0003F	COMPOSITE	Homogeneous			
13-Silver Paint/Mastic 712300690-0004 Unable to separate.	PENETRATION N/W - BLACK MASTIC	Black/Silver Non-Fibrous Heterogeneous		90% Non-fibrous (Other)	10% Chrysotile
14-Silver Paint/Coating	PENETRATION W/N - BLACK MASTIC	Silver/Beige Non-Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (Other)	None Detected
14-Mastic	PENETRATION W/N - BLACK MASTIC	Black Non-Fibrous		90% Non-fibrous (Other)	10% Chrysotile
712300690-0005A	BENOR WING TO	Homogeneous			
15-SilverPaint/Coating	PENETRATION N/S - BLACK MASTIC	Silver/Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300690-0006		Homogeneous			
15-Mastic 712300690-0006A	PENETRATION N/S - BLACK MASTIC	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
16-Silver Paint	PENETRATION E/S -	Silver	2% Wollastonite	98% Non-fibrous (Other)	None Detected
712300690-0007	WATERPROOF ROOFING COMPOSITE	Non-Fibrous Homogeneous		, ,	
16-Sealant	PENETRATION E/S - WATERPROOF	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300690-0007A	ROOFING COMPOSITE	Homogeneous			
17-Silver Paint	PENETRATION N/W - WATERPROOF	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300690-0008	ROOFING COMPOSITE	Homogeneous			
17-Sealant	PENETRATION N/W - WATERPROOF	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300690-0008A	ROOFING COMPOSITE	Homogeneous			
18-Silver Paint	PENETRATION E/N - WATERPROOF	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300690-0009	ROOFING COMPOSITE	Homogeneous			
18-Sealant	PENETRATION E/N - WATERPROOF	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300690-0009A	ROOFING COMPOSITE	Homogeneous			

Initial report from: 05/19/2023 16:06:21



4335 E. Airport Dr. Unit 110 Ontario, CA 91761

Tel/Fax: (909) 295-6825 / (909) 295-6826

http://www.LATesting.com / InlandEmpireLab@latesting.com

LA Testing Order: 712300690 Customer ID: 32TESV78

> Customer PO: Project ID:

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

		Non-Asbestos			<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
18-Mastic	PENETRATION E/N - WATERPROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300690-0009B	ROOFING COMPOSITE	Homogeneous			

Analyst(s)

Guillermo Hernandez (12) Olivia Santiago (21) Olivia Santiago, Laboratory Manager or Other Approved Signatory

LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore LA Testing recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by LA Testing Ontario, CA NVLAP Lab Code 600239-0; CA ELAP 3053

Initial report from: 05/19/2023 16:06:21

Job Na	me & Location 7390			Billing Info:				
	1 1		1	Terra Env	ironmental Services	s Inc.		
5	151 State U	NIVE	(City		perial Hwy Suite A2			
,					Springs CA 90760			٨
	os angeles	CA			ael@terraeng.com		1	
Sample Analysi					600/R-	TAT	48	prs
ID #	Material Description	HM		of Sampl	e	Condition	Friable	Quantity
					. /	\ /		
- 177	felt on roof compa	ine 04	ROC	) <del>(</del>	M/M	intact	no	19007
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02		04			NS	1		1
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4335 E. Airport Dr. Unit 110 Ontario, CA 91761

Tel/Fax: (909) 295-6825 / (909) 295-6826

http://www.LATesting.com / InlandEmpireLab@latesting.com

LA Testing Order: 712300691 Customer ID: 32TESV78

Customer PO: Project ID:

Attention: Lab results Phone: (562) 868-3777

Terra Environmental Services Fax:

12631 Imperial Hwy **Received Date:** 05/19/2023 8:30 AM

Suite A225 Analysis Date: 05/19/2023

Santa Fe Springs, CA 90670 Collected Date:

Project: 73991 / ROOF KH / 5151 STATE UNIVERSITY, LOS ANGELES, CA

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
19-Roofing	ROOF S/E - GRAVEL ROOF COMPOSITE	Brown/Gray/Black Fibrous	10% Cellulose 5% Synthetic	85% Non-fibrous (Other)	None Detected
712300691-0001 19-Insulation	ROOF S/E - GRAVEL	Homogeneous Brown	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300691-0001A	ROOF COMPOSITE	Non-Fibrous Homogeneous			
20-Roofing	ROOF E/N - GRAVEL ROOF COMPOSITE	Gray/Black Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
712300691-0002		Homogeneous			
20-Felt 1	ROOF E/N - GRAVEL ROOF COMPOSITE	Black Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
712300691-0002A		Homogeneous			
20-Felt 2	ROOF E/N - GRAVEL ROOF COMPOSITE	Black Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
712300691-0002B		Homogeneous			
20-Tar	ROOF E/N - GRAVEL ROOF COMPOSITE	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300691-0002C		Homogeneous			
20-Insulation	ROOF E/N - GRAVEL ROOF COMPOSITE	Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300691-0002D		Homogeneous			
21-Roofing	ROOF W/N - GRAVEL ROOF	Black Non-Fibrous	10% Cellulose 10% Synthetic	80% Non-fibrous (Other)	None Detected
712300691-0003	COMPOSITE	Homogeneous			
21-Insulation	ROOF W/N - GRAVEL ROOF	Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300691-0003A	COMPOSITE	Homogeneous			
22-Shingle	ROOF S/E - PARAPET ROOF	Gray/Black Non-Fibrous	10% Synthetic	90% Non-fibrous (Other)	None Detected
712300691-0004		Homogeneous			
22-Felt 1	ROOF S/E - PARAPET ROOF	Black Non-Fibrous	10% Synthetic	90% Non-fibrous (Other)	None Detected
712300691-0004A		Homogeneous			
22-Mastic	ROOF S/E - PARAPET ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300691-0004B		Homogeneous			
22-Felt 2	ROOF S/E - PARAPET ROOF	Black Fibrous		80% Non-fibrous (Other)	20% Chrysotile
712300691-0004C		Homogeneous			
22-Insulation	ROOF S/E - PARAPET ROOF	Brown Non-Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300691-0004D		Homogeneous			
23-Shingle	ROOF W/N - PARAPET ROOF	Gray/Black Fibrous	10% Synthetic	90% Non-fibrous (Other)	None Detected
712300691-0005		Homogeneous			
23-Felt 1	ROOF W/N - PARAPET ROOF	Black Non-Fibrous	10% Synthetic	90% Non-fibrous (Other)	None Detected
712300691-0005A		Homogeneous			

Initial report from: 05/19/2023 12:50:30



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Tel/Fax: (909) 295-6825 / (909) 295-6826

http://www.LATesting.com / InlandEmpireLab@latesting.com

LA Testing Order: 712300691 Customer ID: 32TESV78

Customer PO: Project ID:

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

		<u>Asbestos</u>			
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
23-Mastic	ROOF W/N - PARAPET ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300691-0005B		Homogeneous			
23-Felt 2 712300691-0005C	ROOF W/N - PARAPET ROOF	Black Non-Fibrous Homogeneous	5% Cellulose 10% Glass	85% Non-fibrous (Other)	None Detected
23-Felt 3	ROOF W/N - PARAPET ROOF	Black Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
712300691-0005D	17404 211001	Homogeneous			
23-Felt 4	ROOF W/N - PARAPET ROOF	Black Fibrous		80% Non-fibrous (Other)	20% Chrysotile
712300691-0005E		Homogeneous			
23-Insulation	ROOF W/N - PARAPET ROOF	Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300691-0005F	D005.5":	Homogeneous	100/ 0	000(1) 5" (5" )	
24-Shingle	ROOF E/N - PARAPET ROOF	Gray/Black Fibrous	10% Synthetic	90% Non-fibrous (Other)	None Detected
712300691-0006		Heterogeneous			
24-Felt 1	ROOF E/N - PARAPET ROOF	Black Fibrous	20% Glass	80% Non-fibrous (Other)	None Detected
712300691-0006A		Homogeneous			
24-Felt 2	ROOF E/N - PARAPET ROOF	Brown/Black Fibrous		70% Non-fibrous (Other)	30% Chrysotile
712300691-0006B		Homogeneous			
24-Tar Mastic	ROOF E/N - PARAPET ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300691-0006C		Homogeneous			
24-Insulation	ROOF E/N - PARAPET ROOF	Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300691-0006D		Homogeneous			
25-Coating	PENETRATION S/E - BLACK MASTIC	Gray/White/Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300691-0007		Homogeneous			
25-Mastic	PENETRATION S/E - BLACK MASTIC	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300691-0007A	DENETO ATION 1875	Homogeneous		1000/ Non Eb (Ob)	None Detected
26-Coating	PENETRATION W/N - BLACK MASTIC	Gray/White/Black Fibrous		100% Non-fibrous (Other)	None Detected
712300691-0008	DELICTE LEGISLATION	Homogeneous		4000/ NJ - 5" - (5" )	
26-Mastic	PENETRATION W/N - BLACK MASTIC	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300691-0008A	DELICTE LETTER TO THE PERSON OF THE PERSON O	Homogeneous		4000/ NJ - 5" - (5" )	
27-Coating	PENETRATION E/N - BLACK MASTIC	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300691-0009		Homogeneous			
27-Mastic	PENETRATION E/N - BLACK MASTIC	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300691-0009A		Homogeneous			

Initial report from: 05/19/2023 12:50:30



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LA Testing Order: 712300691 Customer ID: 32TESV78

> Customer PO: Project ID:

Analyst(s)

Guillermo Hernandez (23) Olivia Santiago (9) Olivia Santiago, Laboratory Manager or Other Approved Signatory

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Samples analyzed by LA Testing Ontario, CA NVLAP Lab Code 600239-0; CA ELAP 3053

Initial report from: 05/19/2023 12:50:30





Job Na	me & Loc	ation	7	30	9		V	Billing 1	Info:							
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4335 E. Airport Dr. Unit 110 Ontario, CA 91761

Tel/Fax: (909) 295-6825 / (909) 295-6826

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LA Testing Order: 712300696 Customer ID: 32TESV78

Customer PO: Project ID:

Attention: Lab results Phone: (562) 868-3777

Terra Environmental Services Fax:

12631 Imperial Hwy **Received Date:** 05/19/2023 8:30 AM

Suite A225 Analysis Date: 05/22/2023

Santa Fe Springs, CA 90670 Collected Date:

Project: 73991 / ROOF MUSIC #1 / 5151 STATE UNIVERSITY, LOS ANGELES, CA

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
66-Roofing	ROOF S/W - GRAVEL ROOF COMPOSITE	Gray/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
66-Felt	ROOF S/W - GRAVEL ROOF	Black Fibrous	65% Cellulose	35% Non-fibrous (Other)	None Detected
712300696-0001A	COMPOSITE	Homogeneous			
66-Insulation	ROOF S/W - GRAVEL ROOF	Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300696-0001B	COMPOSITE	Homogeneous			
67-Roofing	ROOF N/E - GRAVEL ROOF COMPOSITE	Gray/Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300696-0002	DOOF N/F OR A /FI	Heterogeneous	050/ 0 # 1	050( N	N 5
67-Felt	ROOF N/E - GRAVEL ROOF COMPOSITE	Black Fibrous	65% Cellulose	35% Non-fibrous (Other)	None Detected
712300696-0002A	DOOF WAY	Homogeneous	400/ 0 " '	050/ Nov. 51 (01)	Non-Bridge
68-Roofing 712300696-0003	ROOF W/N - GRAVEL ROOF COMPOSITE	Black Non-Fibrous Homogeneous	10% Cellulose 5% Synthetic	85% Non-fibrous (Other)	None Detected
68-Felt	ROOF W/N -	Black	45% Cellulose	55% Non-fibrous (Other)	None Detected
712300696-0003A	GRAVEL ROOF COMPOSITE	Fibrous Homogeneous			
68-Insulation	ROOF W/N - GRAVEL ROOF	Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300696-0003B	COMPOSITE	Homogeneous			
69-Silver Paint	PENETRATION N/E - BLACK MASTIC	Silver Non-Fibrous		95% Non-fibrous (Other)	5% Chrysotile
712300696-0004		Homogeneous			
69-Mastic	PENETRATION N/E - BLACK MASTIC	Black Non-Fibrous	5% Glass	88% Non-fibrous (Other)	7% Chrysotile
712300696-0004A		Homogeneous			
69-Felt	PENETRATION N/E - BLACK MASTIC	Black Fibrous		55% Non-fibrous (Other)	45% Chrysotile
712300696-0004B		Homogeneous			
70-Silver Paint	PENETRATION E/S - BLACK MASTIC	Silver Non-Fibrous		95% Non-fibrous (Other)	5% Chrysotile
712300696-0005		Homogeneous			<b>-</b> 0. 5:
70-Mastic	PENETRATION E/S - BLACK MASTIC	Black Non-Fibrous	5% Glass	88% Non-fibrous (Other)	7% Chrysotile
712300696-0005A		Homogeneous			
70-Felt	PENETRATION E/S - BLACK MASTIC	Black Fibrous		55% Non-fibrous (Other)	45% Chrysotile
712300696-0005B		Homogeneous			
71-Silver Paint	PENETRATION S/W - BLACK MASTIC	Silver Non-Fibrous		96% Non-fibrous (Other)	4% Chrysotile
712300696-0006 71-Mastic	PENETRATION S/W	Homogeneous Black	10% Glass	82% Non-fibrous (Other)	8% Chrysotile
712300696-0006A	- BLACK MASTIC	Fibrous Homogeneous			

Initial report from: 05/22/2023 17:01:07



4335 E. Airport Dr. Unit 110 Ontario, CA 91761

Tel/Fax: (909) 295-6825 / (909) 295-6826

http://www.LATesting.com / InlandEmpireLab@latesting.com

LA Testing Order: 712300696 Customer ID: 32TESV78

> Customer PO: Project ID:

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-A	Asbestos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
71-Felt	PENETRATION S/W	Black		65% Non-fibrous (Other)	35% Chrysotile
	- BLACK MASTIC	Fibrous			
712300696-0006B		Homogeneous			

Analyst(s)

Humberto Espinoza Bajo (11) Olivia Santiago (6) Olivia Santiago, Laboratory Manager or Other Approved Signatory

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Samples analyzed by LA Testing Ontario, CA NVLAP Lab Code 600239-0; CA ELAP 3053

Initial report from: 05/22/2023 17:01:07

Job Nar	me & Loc	ation	7399	11		Billing Info:						
						Terra Environmental Services Inc.						
51	51	Sto	AFE ON	Wer	City	12631	Imperial Hwy Suite A					
	- 0	O 10		- A		Santa I	Fe Springs CA 90760					
	20	ar	GELES	01			israel@terraeng.com					
Sample Analysis	s:	PLM - 93/11	Asbestos Analys 6 Method using F	is of Bu Polarized	lk Materia I Light Mic	ls via E croscor	s via EPA 600/R-					
ID#	Materia	l Descri	ption	НМ	Location			Condition	Friable	Quantity		
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Tel/Fax: (909) 295-6825 / (909) 295-6826

http://www.LATesting.com / InlandEmpireLab@latesting.com

LA Testing Order: 712300698 Customer ID: 32TESV78

Customer PO: Project ID:

Attention: Lab results Phone: (562) 868-3777

Terra Environmental Services Fax:

12631 Imperial Hwy **Received Date:** 05/19/2023 8:30 AM

Suite A225 Analysis Date: 05/22/2023

Santa Fe Springs, CA 90670 Collected Date:

Project: 73991 / ROOF MUSIC #2 / 5151 STATE UNIVERSITY, LOS ANGELES, CA

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
60-Shingle	ROOF E/S - FELT ON ROOF COMPOSITE	Gray/Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300698-0001 60-Felt 1	ROOF E/S - FELT ON ROOF	Heterogeneous  Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300698-0001A	COMPOSITE	Homogeneous			
60-Felt 2	ROOF E/S - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300698-0001B	COMPOSITE	Homogeneous			
60-Tar 712300698-0001C	ROOF E/S - FELT ON ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
	COMPOSITE	Homogeneous	050/ 0 # 1	2004 D. III	
60-Insulation 712300698-0001D	ROOF E/S - FELT ON ROOF COMPOSITE	Brown Fibrous Homogeneous	65% Cellulose	20% Perlite 15% Non-fibrous (Other)	None Detected
60-Foam	ROOF E/S - FELT	White		100% Non-fibrous (Other)	None Detected
оо-гоап 712300698-0001Е	ON ROOF COMPOSITE	Non-Fibrous Homogeneous		100% Non-librous (Other)	None Detected
61-Shingle	ROOF N/W - FELT ON ROOF	Gray/Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300698-0002	COMPOSITE	Heterogeneous			
61-Felt 1	ROOF N/W - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300698-0002A	COMPOSITE	Homogeneous			
61-Felt 2	ROOF N/W - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300698-0002B	COMPOSITE	Homogeneous			
61-Tar 712300698-0002C	ROOF N/W - FELT ON ROOF COMPOSITE	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
		-	050/ 0 # 1	000/ D. III	
61-Insulation 712300698-0002D	ROOF N/W - FELT ON ROOF COMPOSITE	Brown Fibrous Homogeneous	65% Cellulose	20% Perlite 15% Non-fibrous (Other)	None Detected
62-Shingle	ROOF W/N - FELT	Gray/Black	10% Glass	90% Non-fibrous (Other)	None Detected
712300698-0003	ON ROOF COMPOSITE	Fibrous Heterogeneous	10 /0 Glass	30 /0 NOH-HIDIOUS (Other)	None Detected
62-Felt 1	ROOF W/N - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300698-0003A	COMPOSITE	Homogeneous			
62-Felt 2	ROOF W/N - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300698-0003B	COMPOSITE	Homogeneous			
62-Tar	ROOF W/N - FELT ON ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300698-0003C	COMPOSITE	Homogeneous			
62-Insulation	ROOF W/N - FELT ON ROOF	Brown/Gray Fibrous	75% Cellulose	20% Perlite 5% Non-fibrous (Other)	None Detected
712300698-0003D	COMPOSITE	Homogeneous			

Initial report from: 05/22/2023 17:57:28



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LA Testing Order: 712300698 Customer ID: 32TESV78

> **Customer PO:** Project ID:

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	<u>stos</u>	<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type		
62-Foam 712300698-0003E	ROOF W/N - FELT ON ROOF COMPOSITE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected		
63 712300698-0004	PENETRATION S/E - BLACK MASTIC	Black Fibrous Heterogeneous	5% Cellulose 5% Glass	90% Non-fibrous (Other)	None Detected		
64 712300698-0005	PENETRATION W/N - BLACK MASTIC	Black Fibrous Heterogeneous	10% Cellulose 5% Glass	85% Non-fibrous (Other)	None Detected		
65 712300698-0006	PENETRATION S/W - BLACK MASTIC	Black Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected		

Analyst(s)

Humberto Espinoza Bajo (7) Olivia Santiago (13)

Olivia Santiago, Laboratory Manager or Other Approved Signatory

LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore LA Testing recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by LA Testing Ontario, CA NVLAP Lab Code 600239-0; CA ELAP 3053

Initial report from: 05/22/2023 17:57:28

Relinquished By:	Date & Time ,
ulises monsaivo	5/17/23
Received By:	Date & Time
Minique Steib (QL (WI)	5/19/23 8:30AM



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LA Testing Order: 712300688 Customer ID: 32TESV78

Customer PO: Project ID:

Attention: Lab results Phone: (562) 868-3777

Terra Environmental Services Fax:

 12631 Imperial Hwy
 Received Date:
 05/19/2023 8:30 AM

 Suite A225
 Analysis Date:
 05/19/2023 - 05/22/2023

Santa Fe Springs, CA 90670 Collected Date:

Project: 73991 / ROOF #3 MUSIC / 5151 STATE UNIVERSITY, LOS ANGELES, CA

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	stos	<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type		
43-Shingle 712300688-0001	ROOF E/S - FELT ON ROOF	Gray/Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
43-Felt 1	COMPOSITE  ROOF E/S - FELT  ON ROOF	Homogeneous  Black Non-Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected		
712300688-0001A	COMPOSITE	Homogeneous					
43-Felt 2	ROOF E/S - FELT ON ROOF	Black Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected		
712300688-0001B	COMPOSITE	Homogeneous					
43-Felt 3	ROOF E/S - FELT ON ROOF	Black Non-Fibrous	40% Cellulose	60% Non-fibrous (Other)	None Detected		
712300688-0001C	COMPOSITE	Homogeneous					
43-Mastic 712300688-0001D	ROOF E/S - FELT ON ROOF COMPOSITE	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected		
			000/ 0-11-1	20/ Nam Element (Othern)	Nama Data ata d		
43-Insulation 712300688-0001E	ROOF E/S - FELT ON ROOF COMPOSITE	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected		
43-Foam	ROOF E/S - FELT ON ROOF	White Non-Fibrous		100% Non-fibrous (Other)	None Detected		
712300688-0001F	COMPOSITE	Homogeneous					
44-Shingle	ROOF S/W - FELT ON ROOF	Gray/Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
712300688-0002	COMPOSITE	Homogeneous					
44-Felt 1	ROOF S/W - FELT ON ROOF	Black Non-Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
712300688-0002A	COMPOSITE	Homogeneous					
44-Felt 2	ROOF S/W - FELT ON ROOF COMPOSITE	Black Fibrous	5% Glass	95% Non-fibrous (Other)	None Detected		
712300688-0002B		Homogeneous		4000/ Nov. 51 (Others)	N D. t t l		
44-Felt 3 712300688-0002C	ROOF S/W - FELT ON ROOF COMPOSITE	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected		
44-Felt 4	ROOF S/W - FELT ON ROOF	Various Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected		
712300688-0002D	COMPOSITE	Homogeneous					
44-Mastic	ROOF S/W - FELT ON ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected		
712300688-0002E	COMPOSITE	Homogeneous					
44-Foam	ROOF S/W - FELT ON ROOF	White Non-Fibrous		100% Non-fibrous (Other)	None Detected		
712300688-0002F	COMPOSITE	Homogeneous					
45-Shingle	ROOF W/N - FELT ON ROOF	Gray/Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
712300688-0003	COMPOSITE	Homogeneous					
45-Felt 1	ROOF W/N - FELT ON ROOF	Black Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected		
712300688-0003A	COMPOSITE	Homogeneous					

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Sample         Description           45-Felt 2         ROOF W/N - FELT ON ROOF COMPOSITE           45-Felt 3         ROOF W/N - FELT ON ROOF COMPOSITE           45-Felt 3         ROOF W/N - FELT ON ROOF COMPOSITE           45-Mastic         ROOF W/N - FELT ON ROOF COMPOSITE           45-Insulation         ROOF W/N - FELT ON ROOF COMPOSITE           45-Foam         ROOF W/N - FELT ON ROOF COMPOSITE           45-Foam         ROOF W/N - FELT ON ROOF COMPOSITE           46-Shingle         ROOF W/S - FELT ON ROOF COMPOSITE           46-Felt 1         ROOF W/S - FELT ON ROOF COMPOSITE           46-Felt 2         ROOF W/S - FELT ON ROOF COMPOSITE           46-Felt 3         ROOF W/S - FELT ON ROOF COMPOSITE           46-Felt 3         ROOF W/S - FELT ON ROOF COMPOSITE           46-Mastic         ROOF W/S - FELT ON ROOF COMPOSITE           712300688-0004C         ROOF W/S - FELT ON ROOF COMPOSITE	Appearance  Black Fibrous Homogeneous  Black Fibrous Homogeneous  Black Non-Fibrous Homogeneous  Brown Fibrous Homogeneous  White Non-Fibrous Homogeneous  Gray/White/Black Fibrous Heterogeneous  Black Fibrous	% Fibrous  10% Cellulose  10% Cellulose  98% Cellulose	% Non-Fibrous  90% Non-fibrous (Other)  90% Non-fibrous (Other)  100% Non-fibrous (Other)  2% Non-fibrous (Other)  100% Non-fibrous (Other)	None Detected  None Detected  None Detected  None Detected  None Detected
12300688-0003B   COMPOSITE	Homogeneous  Black Fibrous Homogeneous  Black Non-Fibrous Homogeneous  Brown Fibrous Homogeneous  White Non-Fibrous Homogeneous  Gray/White/Black Fibrous Heterogeneous  Black	98% Cellulose	100% Non-fibrous (Other)  2% Non-fibrous (Other)	None Detected  None Detected
ON ROOF COMPOSITE  15-Mastic ROOF W/N - FELT ON ROOF COMPOSITE  15-Insulation ROOF W/N - FELT ON ROOF COMPOSITE  15-Insulation ROOF W/N - FELT ON ROOF COMPOSITE  15-Foam ROOF W/N - FELT ON ROOF COMPOSITE  16-Shingle ROOF W/S - FELT ON ROOF COMPOSITE  16-Felt 1 ROOF W/S - FELT ON ROOF COMPOSITE  16-Felt 2 ROOF W/S - FELT ON ROOF COMPOSITE  16-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  16-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  16-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  16-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  16-Mastic ROOF W/S - FELT ON ROOF COMPOSITE  16-Mastic ROOF W/S - FELT ON ROOF COMPOSITE	Fibrous Homogeneous  Black Non-Fibrous Homogeneous  Brown Fibrous Homogeneous  White Non-Fibrous Homogeneous  Gray/White/Black Fibrous Heterogeneous  Black	98% Cellulose	100% Non-fibrous (Other)  2% Non-fibrous (Other)	None Detected  None Detected
15-Mastic   ROOF W/N - FELT ON ROOF COMPOSITE     15-Insulation   ROOF W/N - FELT ON ROOF COMPOSITE     15-Insulation   ROOF W/N - FELT ON ROOF COMPOSITE     15-Foam   ROOF W/N - FELT ON ROOF COMPOSITE     15-Foam   ROOF W/N - FELT ON ROOF COMPOSITE     16-Shingle   ROOF W/S - FELT ON ROOF COMPOSITE     16-Felt 1   ROOF W/S - FELT ON ROOF COMPOSITE     16-Felt 2   ROOF W/S - FELT ON ROOF COMPOSITE     16-Felt 3   ROOF W/S - FELT ON ROOF COMPOSITE     16-Felt 3   ROOF W/S - FELT ON ROOF COMPOSITE     16-Mastic   ROOF W/S - FELT	Black Non-Fibrous Homogeneous Brown Fibrous Homogeneous White Non-Fibrous Homogeneous Gray/White/Black Fibrous Heterogeneous Black		2% Non-fibrous (Other)	None Detected
ON ROOF COMPOSITE  45-Insulation ROOF W/N - FELT ON ROOF COMPOSITE  45-Insulation ROOF W/N - FELT ON ROOF COMPOSITE  45-Foam ROOF W/N - FELT ON ROOF COMPOSITE  46-Shingle ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 1 ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 2 ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  46-Mastic ROOF W/S - FELT ON ROOF COMPOSITE  46-Mastic ROOF W/S - FELT ON ROOF COMPOSITE	Non-Fibrous Homogeneous Brown Fibrous Homogeneous White Non-Fibrous Homogeneous Gray/White/Black Fibrous Heterogeneous Black		2% Non-fibrous (Other)	None Detected
ROOF W/N - FELT ON ROOF	Brown Fibrous Homogeneous White Non-Fibrous Homogeneous Gray/White/Black Fibrous Heterogeneous Black		. ,	
ON ROOF COMPOSITE  15-Foam ROOF W/N - FELT ON ROOF COMPOSITE  16-Shingle ROOF W/S - FELT ON ROOF COMPOSITE  16-Shingle ROOF W/S - FELT ON ROOF COMPOSITE  16-Felt 1 ROOF W/S - FELT ON ROOF COMPOSITE  16-Felt 2 ROOF W/S - FELT ON ROOF COMPOSITE  16-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  16-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  16-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  16-Mastic ROOF W/S - FELT ON ROOF COMPOSITE  16-Mastic ROOF W/S - FELT ON ROOF COMPOSITE	Fibrous Homogeneous White Non-Fibrous Homogeneous Gray/White/Black Fibrous Heterogeneous Black		. ,	
ROOF W/N - FELT ON ROOF COMPOSITE	White Non-Fibrous Homogeneous Gray/White/Black Fibrous Heterogeneous Black	10% Glass	100% Non-fibrous (Other)	None Detected
ON ROOF COMPOSITE  46-Shingle ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 1 ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 2 ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  46-Mastic ROOF W/S - FELT ON ROOF COMPOSITE  46-Mastic ROOF W/S - FELT ON ROOF COMPOSITE	Non-Fibrous Homogeneous Gray/White/Black Fibrous Heterogeneous Black	10% Glass	100% Non-fibrous (Other)	None Detected
#6-Shingle ROOF W/S - FELT ON ROOF COMPOSITE #6-Felt 1 ROOF W/S - FELT ON ROOF COMPOSITE #6-Felt 2 ROOF W/S - FELT ON ROOF COMPOSITE #6-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE #6-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE #6-Mastic ROOF W/S - FELT ON ROOF COMPOSITE #6-Mastic ROOF W/S - FELT ON ROOF COMPOSITE	Gray/White/Black Fibrous Heterogeneous Black	10% Glass		
ON ROOF COMPOSITE  46-Felt 1 ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 2 ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  712300688-0004C ROOF W/S - FELT ON ROOF COMPOSITE  46-Mastic ROOF W/S - FELT ON ROOF COMPOSITE	Fibrous Heterogeneous Black	10% Glass		
#6-Felt 1 ROOF W/S - FELT ON ROOF COMPOSITE  #6-Felt 2 ROOF W/S - FELT ON ROOF COMPOSITE  #6-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  #6-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  #6-Mastic ROOF W/S - FELT ON ROOF COMPOSITE  #6-Mastic ROOF W/S - FELT ON ROOF COMPOSITE	Black	10% Glass 90% Non-fibrous (Other)		None Detected
ON ROOF COMPOSITE  46-Felt 2 ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  46-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE  46-Mastic ROOF W/S - FELT ON ROOF COMPOSITE  COMPOSITE		100/ 01	000/ Non fib (Oth)	None Data da
#6-Felt 2 ROOF W/S - FELT ON ROOF COMPOSITE #6-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE #6-Mastic ROOF W/S - FELT ON ROOF COMPOSITE #6-Mastic ROOF W/S - FELT ON ROOF COMPOSITE	Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
ON ROOF 712300688-0004B  COMPOSITE  46-Felt 3  ROOF W/S - FELT ON ROOF 712300688-0004C  COMPOSITE  46-Mastic  ROOF W/S - FELT ON ROOF COMPOSITE  712300688-0004D  COMPOSITE	Black	10% Glass	00% Non fibratio (Other)	None Detected
#6-Felt 3 ROOF W/S - FELT ON ROOF COMPOSITE #6-Mastic ROOF W/S - FELT ON ROOF COMPOSITE #12300688-0004D COMPOSITE	Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
ON ROOF 712300688-0004C COMPOSITE  46-Mastic ROOF W/S - FELT ON ROOF 712300688-0004D COMPOSITE	Homogeneous	10% Glass	00% Non fibraria (Other)	None Detected
66-Mastic ROOF W/S - FELT ON ROOF COMPOSITE	Black Fibrous Homogeneous	1076 Glass	90% Non-fibrous (Other)	None Detected
ON ROOF 712300688-0004D COMPOSITE	Black		100% Non-fibrous (Other)	None Detected
712300688-0004D COMPOSITE	Non-Fibrous		100 % Non-fibrous (Other)	None Detected
	Homogeneous			
46-Insulation ROOF W/S - FELT ON ROOF	Brown/Gray Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300688-0004E COMPOSITE	Homogeneous			
16-Foam ROOF W/S - FELT ON ROOF	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300688-0004F COMPOSITE	Homogeneous			
47-Shingle ROOF N/W - FELT ON ROOF	Gray/Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300688-0005 COMPOSITE	Heterogeneous			
47-Felt 1 ROOF N/W - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300688-0005A COMPOSITE	Homogeneous	100/ 01	000/ Nov. 51 (21)	Non-Street
17-Felt 2 ROOF N/W - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300688-0005B COMPOSITE	Homogeneous	400/ 01:	000/ Nam 51 accor (011 ac)	Mana Districts 1
17-Felt 3 ROOF N/W - FELT ON ROOF 12300688-0005C COMPOSITE	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
			100% Non fibraria (Other)	None Detected
#7-Mastic ROOF N/W - FELT ON ROOF COMPOSITE	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
		00% Callulana	20/ Non fibraria (Other)	None Detected
47-Insulation ROOF N/W - FELT ON ROOF	Brown/Gray Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300688-0005E	Homogeneous White		100% Non-fibrous (Other)	None Detected
ON ROOF 712300688-0005F COMPOSITE	vvnite Non-Fibrous			

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## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos .	<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type		
48 712300688-0006	PENETRATION W/N - BLACK MASTIC	Gray/Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected		
49 712300688-0007	PENETRATION N/E - BLACK MASTIC	Gray/Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected		
50-Shingle 712300688-0008	PENETRATION S/E - BLACK MASTIC	Gray/White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected		
50-Mastic 712300688-0008A	PENETRATION S/E - BLACK MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected		
51 712300688-0009	PENETRATION E/S - WATERPROOF ROOFING COMPOSITE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected		
52 712300688-0010	PENETRATION W/S - WATERPROOF ROOFING COMPOSITE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected		
53 712300688-0011	PENETRATION N/E - WATERPROOF ROOFING COMPOSITE	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected		

Analyst(s)

Guillermo Hernandez (25) Humberto Espinoza Bajo (17) Olivia Santiago, Laboratory Manager or Other Approved Signatory

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Samples analyzed by LA Testing Ontario, CA NVLAP Lab Code 600239-0; CA ELAP 3053

Initial report from: 05/22/2023 16:44:40

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	202	an	AFIE	<u> </u>	17	Email: isra	el@terraeng.com		icanor se		<u> </u>
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4335 E. Airport Dr. Unit 110 Ontario, CA 91761

Tel/Fax: (909) 295-6825 / (909) 295-6826

http://www.LATesting.com / InlandEmpireLab@latesting.com

LA Testing Order: 712300697 Customer ID: 32TESV78

Customer PO: Project ID:

Attention: Lab results Phone: (562) 868-3777

Terra Environmental Services Fax:

12631 Imperial Hwy Received Date: 05/19/2023 8:30 AM

Suite A225 Analysis Date: 05/22/2023

Santa Fe Springs, CA 90670 Collected Date:

Project: 73991 / ROOF MUSIC - MINI ROOF / 5151 STATE UNIVERSITY, LOS ANGELES, CA

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	<u>stos</u>	<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type		
54-Roofing 712300697-0001	ROOF W/N - GRAVEL ROOF COMPOSITE	Gray/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected		
54-Felt 712300697-0001A	ROOF W/N - GRAVEL ROOF COMPOSITE	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected		
55-Roofing 712300697-0002	ROOF N/W - GRAVEL ROOF COMPOSITE	Gray/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected		
55-Felt 712300697-0002A	ROOF N/W - GRAVEL ROOF COMPOSITE	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected		
56-Roofing 712300697-0003	ROOF E/S - GRAVEL ROOF COMPOSITE	Black Fibrous Heterogeneous	10% Cellulose 3% Synthetic	83% Non-fibrous (Other)	4% Chrysotile		
56-Felt 712300697-0003A	ROOF E/S - GRAVEL ROOF COMPOSITE	Black Fibrous Homogeneous	35% Cellulose 5% Synthetic	60% Non-fibrous (Other)	None Detected		
57-Coating 712300697-0004	PENETRATION W/S - BLACK MASTIC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected		
57-Mastic 712300697-0004A	PENETRATION W/S - BLACK MASTIC	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected		
58 712300697-0005	PENETRATION E/S - BLACK MASTIC	Black/Silver Fibrous Homogeneous	5% Glass	90% Non-fibrous (Other)	5% Chrysotile		
59-Silver Paint	PENETRATION N/W - BLACK MASTIC	Silver Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile		
59-Mastic 712300697-0006A	PENETRATION N/W - BLACK MASTIC	Black Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected		

Initial report from: 05/22/2023 17:11:56



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Tel/Fax: (909) 295-6825 / (909) 295-6826

http://www.LATesting.com / InlandEmpireLab@latesting.com

LA Testing Order: 712300697 Customer ID: 32TESV78

> Customer PO: Project ID:

Analyst(s)

Humberto Espinoza Bajo (7) Olivia Santiago (4) Olivia Santiago, Laboratory Manager or Other Approved Signatory

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Samples analyzed by LA Testing Ontario, CA NVLAP Lab Code 600239-0; CA ELAP 3053

Initial report from: 05/22/2023 17:11:56

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LA Testing Order: 712300693 Customer ID: 32TESV78

Customer PO: Project ID:

Attention: Lab results Phone: (562) 868-3777

Terra Environmental Services Fax:

12631 Imperial Hwy **Received Date:** 05/19/2023 8:30 AM

Suite A225 Analysis Date: 05/19/2023

Santa Fe Springs, CA 90670 Collected Date:

Project: 73991 / ROOF SHC #1 / 5151 STATE UNIVERSITY, LOS ANGELES, CA

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type		
72-Felt 1	ROOF E/N - GRAVEL ROOF COMPOSITE	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
712300693-0001 72-Felt 2	ROOF E/N - GRAVEL	Homogeneous Black	10% Glass	90% Non-fibrous (Other)	None Detected		
712300693-0001A	ROOF COMPOSITE	Fibrous Homogeneous		, ,			
72-Felt 3	ROOF E/N - GRAVEL ROOF COMPOSITE	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
712300693-0001B		Homogeneous					
72-Felt 4	ROOF E/N - GRAVEL ROOF COMPOSITE	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
712300693-0001C		Homogeneous					
72-Tar	ROOF E/N - GRAVEL ROOF COMPOSITE	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected		
712300693-0001D		Homogeneous					
72-Insulation	ROOF E/N - GRAVEL ROOF COMPOSITE	Brown/White Fibrous	65% Cellulose	30% Perlite 5% Non-fibrous (Other)	None Detected		
712300693-0001E		Homogeneous					
72-Foam	ROOF E/N - GRAVEL ROOF COMPOSITE	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected		
712300693-0001F		Homogeneous					
73-Felt 1	ROOF S/W - GRAVEL ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
712300693-0002	COMPOSITE	Homogeneous					
73-Felt 2	ROOF S/W - GRAVEL ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
712300693-0002A	COMPOSITE	Homogeneous					
73-Felt 3	ROOF S/W - GRAVEL ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
712300693-0002B	COMPOSITE	Homogeneous					
73-Felt 4	ROOF S/W - GRAVEL ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
712300693-0002C	COMPOSITE	Homogeneous					
73-Tar	ROOF S/W - GRAVEL ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected		
712300693-0002D	COMPOSITE	Homogeneous					
73-Insulation	ROOF S/W - GRAVEL ROOF	Brown/White Fibrous	65% Cellulose	30% Perlite 5% Non-fibrous (Other)	None Detected		
712300693-0002E	COMPOSITE	Homogeneous					
73-Foam	ROOF S/W - GRAVEL ROOF	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected		
712300693-0002F	COMPOSITE	Homogeneous					
74-Felt 1	ROOF N/W - GRAVEL ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
712300693-0003	COMPOSITE	Homogeneous					
74-Felt 2	ROOF N/W - GRAVEL ROOF	Black Non-Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected		
712300693-0003A	COMPOSITE	Homogeneous					

Initial report from: 05/19/2023 18:13:08



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LA Testing Order: 712300693 Customer ID: 32TESV78

Customer PO: Project ID:

# Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample		<u>Non-Asbestos</u>			<u>Asbestos</u>
	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
74-Felt 3	ROOF N/W - GRAVEL ROOF COMPOSITE	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
74-Felt 4	ROOF N/W - GRAVEL ROOF COMPOSITE	Black Non-Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300693-0003C 74-Tar	ROOF N/W - GRAVEL ROOF	Homogeneous  Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300693-0003D	COMPOSITE	Homogeneous			
74-Insulation	ROOF N/W - GRAVEL ROOF	Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
712300693-0003E	COMPOSITE	Homogeneous		4000/ Non-Element (Others)	Nama Data ata d
74-Foam 712300693-0003F	ROOF N/W - GRAVEL ROOF COMPOSITE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
75-Coating	PENETRATION E/S - BLACK MASTIC	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300693-0004		Homogeneous			
75-Mastic	PENETRATION E/S - BLACK MASTIC	Black Non-Fibrous		92% Non-fibrous (Other)	8% Chrysotile
712300693-0004A		Homogeneous			
76-Coating	PENETRATION E/N - BLACK MASTIC	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300693-0005	PENETRATION E/N -	Homogeneous Black		1000/ Non fibrous (Other)	None Detected
76-Mastic	BLACK MASTIC	Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
77-Coating	PENETRATION W/N	White		100% Non-fibrous (Other)	None Detected
71-00ating 712300693-0006	- BLACK MASTIC	Non-Fibrous Homogeneous		100% Hell librous (Caller)	None Beloed
77-Mastic	PENETRATION W/N - BLACK MASTIC	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300693-0006A		Homogeneous			
78-Coating	PENETRATION E/N - WATERPROOF	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300693-0007	ROOFING COMPOSITE	Homogeneous			
78-Sealant	PENETRATION E/N - WATERPROOF	Brown Fibrous	5% Fibrous (Other)	95% Non-fibrous (Other)	None Detected
712300693-0007A	ROOFING COMPOSITE	Homogeneous			
78-Glue	PENETRATION E/N - WATERPROOF	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300693-0007B	ROOFING COMPOSITE	Homogeneous			
79-Coating	PENETRATION N/W - WATERPROOF	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300693-0008	ROOFING COMPOSITE	Homogeneous			
79-Sealant 1	PENETRATION N/W - WATERPROOF	Brown Non-Fibrous	5% Fibrous (Other)	95% Non-fibrous (Other)	None Detected
712300693-0008A	ROOFING COMPOSITE	Homogeneous			
79-Sealant 2	PENETRATION N/W - WATERPROOF	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300693-0008B	ROOFING COMPOSITE	Homogeneous			

Initial report from: 05/19/2023 18:13:08



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LA Testing Order: 712300693 Customer ID: 32TESV78

> Customer PO: Project ID:

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Non-Asbestos			<u>Asbestos</u>
		Appearance	% Fibrous	% Non-Fibrous	% Type
79-Glue 712300693-0008C	PENETRATION N/W - WATERPROOF ROOFING COMPOSITE	Black/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
80-Coating 712300693-0009	PENETRATION W/S - WATERPROOF ROOFING COMPOSITE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
80-Sealant 1 712300693-0009A	PENETRATION W/S - WATERPROOF ROOFING COMPOSITE	Brown Non-Fibrous Homogeneous	5% Fibrous (Other)	95% Non-fibrous (Other)	None Detected
80-Sealant 2 712300693-0009B	PENETRATION W/S - WATERPROOF ROOFING COMPOSITE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
80-Glue 712300693-0009C	PENETRATION W/S - WATERPROOF ROOFING COMPOSITE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Guillermo Hernandez (13) Olivia Santiago (25) Olivia Santiago, Laboratory Manager

or Other Approved Signatory

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Samples analyzed by LA Testing Ontario, CA NVLAP Lab Code 600239-0; CA ELAP 3053

Initial report from: 05/19/2023 18:13:08

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1	as anactes	C	Santa Fe Springs CA 90760 Email: israel@terraeng.cor			
Sample Analysi		sis of Bu Polarized	lk Materials via EPA 600/R-	TAT	ME	3 hrs
ID#	Material Description	НМ	Location of Sample	Condition	Friable	Quantity
72	Gravel roof	21	ROOF E/N	intect	ho	3500
73	composite	21	S/W			
74		21	N/W			
75	Black, mastic	22	penetration Els	intact	10	30 Z
76		23	E/N			
77		22	W/A		1	1
78	LOGING COMPOSITE	23	penetrationEl	intact	po	50 Z
79		23	N/V	V		,
80		23	V W/s		V	4
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72	Travel roof	21	ROOF	EIN	intact	ho	35007
73	composite	21		5/W			
74		21		X/ / M			
77				NEVV		-	
75	Black, mastic	22	penetro	tion ES	intact	10	30 Z
76		23		E/N			
77		22		W/N			
78	roking, composite	23	pendra	FION EN	in.tack	no	50 K
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Tel/Fax: (909) 295-6825 / (909) 295-6826

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LA Testing Order: 712300689 Customer ID: 32TESV78

Customer PO: Project ID:

Attention: Lab results Phone: (562) 868-3777

Terra Environmental Services Fax:

12631 Imperial Hwy **Received Date:** 05/19/2023 8:30 AM

Suite A225 Analysis Date: 05/19/2023

Santa Fe Springs, CA 90670 Collected Date:

Project: 73991 / ROOF #2 SHC / 5151 STATE UNIVERSICITY, LOS ANGELES, CA

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
81-Felt 1	ROOF E/S - GRAVEL ROOF COMPOSITE	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
81-Felt 2	ROOF E/S - GRAVEL ROOF COMPOSITE	Homogeneous  Black Fibrous	20% Synthetic	80% Non-fibrous (Other)	None Detected
712300689-0001A		Homogeneous			
31-Roofing	ROOF E/S - GRAVEL ROOF COMPOSITE	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300689-0001B		Homogeneous			
31-Insulation	ROOF E/S - GRAVEL ROOF COMPOSITE	Brown Fibrous	65% Cellulose	30% Perlite 5% Non-fibrous (Other)	None Detected
712300689-0001C		Homogeneous			
81-Tar	ROOF E/S - GRAVEL ROOF COMPOSITE	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300689-0001D	D005 5** 05 ***	Homogeneous	400/ 6:	000/ NJ _ 5" (5" _ )	N 5
32-Felt	ROOF E/N - GRAVEL ROOF COMPOSITE	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300689-0002	D005 5** 05 ***	Homogeneous	50/ 0 " 1	050/ Nov. 51 (01)	Non-British
32-Roofing 712300689-0002A	ROOF E/N - GRAVEL ROOF COMPOSITE	Black Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
	ROOF E/N - GRAVEL	Black		100% Non fibrage (Other)	None Detected
32-Tar 712300689-0002B	ROOF COMPOSITE	Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
82-Insulation	ROOF E/N - GRAVEL	Brown/White	65% Cellulose	30% Perlite	None Detected
712300689-0002C	ROOF COMPOSITE	Fibrous Homogeneous	03% Cellulose	5% Non-fibrous (Other)	None Detected
33-Felt 1	ROOF W/S -	Black	10% Synthetic	90% Non-fibrous (Other)	None Detected
712300689-0003	GRAVEL ROOF COMPOSITE	Fibrous Homogeneous	10% Synthetic	90% Northiblous (Other)	None Detected
83-Felt 2	ROOF W/S - GRAVEL ROOF	Black Fibrous	20% Synthetic	80% Non-fibrous (Other)	None Detected
712300689-0003A	COMPOSITE	Homogeneous			
83-Roofing	ROOF W/S - GRAVEL ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300689-0003B	COMPOSITE	Homogeneous			
83-Insulation	ROOF W/S - GRAVEL ROOF	Brown Non-Fibrous	60% Cellulose	35% Perlite 5% Non-fibrous (Other)	None Detected
712300689-0003C	COMPOSITE	Homogeneous			
83-Tar	ROOF W/S - GRAVEL ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300689-0003D	COMPOSITE	Homogeneous			
84-Coating	PENETRATION E - BLACK MASTIC	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300689-0004		Homogeneous			
84-Mastic	PENETRATION E - BLACK MASTIC	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300689-0004A		Homogeneous			

Initial report from: 05/19/2023 20:16:47



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Tel/Fax: (909) 295-6825 / (909) 295-6826

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LA Testing Order: 712300689 Customer ID: 32TESV78

> Customer PO: Project ID:

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

		Non-Asbestos			<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
84-Silver Paint	PENETRATION E - BLACK MASTIC	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300689-0004B		Homogeneous			
85-Coating	PENETRATION W/N - BLACK MASTIC	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300689-0005		Homogeneous			
85-Mastic	PENETRATION W/N - BLACK MASTIC	Black Non-Fibrous		95% Non-fibrous (Other)	5% Chrysotile
712300689-0005A		Homogeneous			
86-Coating	PENETRATION N - BLACK MASTIC	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300689-0006		Homogeneous			
86-Mastic	PENETRATION N -	Black		100% Non-fibrous (Other)	None Detected
	BLACK MASTIC	Non-Fibrous			
712300689-0006A		Homogeneous			

Analyst(s)

Guillermo Hernandez (7) Olivia Santiago (14) Olivia Santiago, Laboratory Manager

or Other Approved Signatory

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Samples analyzed by LA Testing Ontario, CA NVLAP Lab Code 600239-0; CA ELAP 3053

Initial report from: 05/19/2023 20:16:47

OrderID: 712300689  TE#71 2300689  Environmental 2300689	70 C	#	SHC
Job Name & Location 7 3 9 9	Billing Info	):	

Job Nar	ne & Locat	tion $7399$			Billing	Info:			
					Terra E	nvironmental Services	Inc.		
51	5 5	state un	ive	rcity	12631 Imperial Hwy Suite A225				
1 (	70	anades	0	A -		e Springs CA 90760			
	08	ALIZEICZ		. ,		israel@terraeng.com		110	7 1 5 0
Sample Analysis		PLM – Asbestos Analys 93/116 Method using F	olarize	lk Materia Llight Mi	ils via E	PA 600/R-	TAT	76	5 MES
ID #	Material	Description	HM	Location			Condition	Friable	Quantity
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Tel/Fax: (909) 295-6825 / (909) 295-6826

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LA Testing Order: 712300694 Customer ID: 32TESV78

Asbestos

Customer PO: Project ID:

Attention: Lab results Phone: (562) 868-3777

Terra Environmental Services Fax:

12631 Imperial Hwy **Received Date:** 05/19/2023 8:30 AM

Suite A225 Analysis Date: 05/19/2023

Santa Fe Springs, CA 90670 Collected Date:

Project: 73991 / ROOF TVF #1 / 5151 STATE UNIVERSITY, LOS ANGELES, CA

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Non-Asbestos

			Non-Asbes	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
28-Shingle	ROOF W/N - FELT ON ROOF	Gray/Black Fibrous	20% Glass	80% Non-fibrous (Other)	None Detected
712300694-0001	COMPOSITE	Heterogeneous			
28-Felt	ROOF W/N - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
712300694-0001A	COMPOSITE	Homogeneous			
28-Tar	ROOF W/N - FELT ON ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
712300694-0001B	COMPOSITE	Homogeneous			
29-Shingle 1	ROOF E/S - FELT ON ROOF	Gray/Black Fibrous	10% Synthetic	90% Non-fibrous (Other)	None Detected
712300694-0002	COMPOSITE	Heterogeneous			
29-Shingle 2	ROOF E/S - FELT ON ROOF	Gray/Black Fibrous	20% Glass	80% Non-fibrous (Other)	None Detected
712300694-0002A	COMPOSITE	Heterogeneous			
29-Felt 712300694-0002B	ROOF E/S - FELT ON ROOF COMPOSITE	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
	ROOF E/S - FELT			100% Non fibrous (Other)	None Detected
29-Tar 712300694-0002C	ON ROOF COMPOSITE	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
	ROOF E/N - FELT		10% Glass	00% Non fibrous (Other)	None Detected
30-Shingle 1 712300694-0003	ON ROOF COMPOSITE	Gray/Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
30-Shingle 2	ROOF E/N - FELT	Gray/Black	15% Glass	85% Non-fibrous (Other)	None Detected
712300694-0003A	ON ROOF COMPOSITE	Non-Fibrous Homogeneous	13 /0 Glass	65% Nort-librous (Other)	None Detected
30-Felt	ROOF E/N - FELT	Black	10% Glass	90% Non-fibrous (Other)	None Detected
712300694-0003B	ON ROOF COMPOSITE	Fibrous Homogeneous	10 % Glass	30 % Non-inflodes (Other)	None Detected
 30-Tar	ROOF E/N - FELT	Black		100% Non-fibrous (Other)	None Detected
712300694-0003C	ON ROOF COMPOSITE	Non-Fibrous Homogeneous		100% Non-instance (Guici)	None Beledied
31-Silver Paint	PENETRATION W/S - BLACK MASTIC	Silver Non-Fibrous		96% Non-fibrous (Other)	4% Chrysotile
712300694-0004		Homogeneous			
31-Mastic 1	PENETRATION W/S - BLACK MASTIC	Black Non-Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
712300694-0004A		Homogeneous			
31-Mastic 2	PENETRATION W/S - BLACK MASTIC	Black Non-Fibrous		92% Non-fibrous (Other)	8% Chrysotile
712300694-0004B		Homogeneous			
32-Silver Paint/Mastic	PENETRATION N/W - BLACK MASTIC	Gray/Black/Silver Non-Fibrous		94% Non-fibrous (Other)	6% Chrysotile
712300694-0005 Unable to separate.		Heterogeneous			
33-Silver Paint/Mastic	PENETRATION E/S - BLACK MASTIC	Black/Silver Fibrous		94% Non-fibrous (Other)	6% Chrysotile
		Homogeneous			



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LA Testing Order: 712300694 Customer ID: 32TESV78

> Customer PO: Project ID:

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-A	Non-Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
Unable to separate.						
34	PENETRATION S/W - WATERPROOF	Gray/Pink/Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected	
712300694-0007	ROOFING COMPOSITE	Homogeneous				
35-Sealant	PENETRATION W/N - WATERPROOF	White/Pink Non-Fibrous		100% Non-fibrous (Other)	None Detected	
712300694-0008	ROOFING COMPOSITE	Homogeneous				
35-Silver Paint	PENETRATION W/N - WATERPROOF	Silver Non-Fibrous		95% Non-fibrous (Other)	5% Chrysotile	
712300694-0008A	ROOFING COMPOSITE	Homogeneous				
35-Mastic	PENETRATION W/N - WATERPROOF	Black Non-Fibrous		92% Non-fibrous (Other)	8% Chrysotile	
712300694-0008B	ROOFING COMPOSITE	Homogeneous				
36-Sealant	PENETRATION N/E - WATERPROOF	White/Pink Non-Fibrous		100% Non-fibrous (Other)	None Detected	
712300694-0009	ROOFING COMPOSITE	Homogeneous				
36-Mastic	PENETRATION N/E - WATERPROOF	Black Non-Fibrous		94% Non-fibrous (Other)	6% Chrysotile	
712300694-0009A	ROOFING COMPOSITE	Homogeneous				

Analyst(s)

Guillermo Hernandez (7) Olivia Santiago (15) Olivia Santiago, Laboratory Manager

or Other Approved Signatory

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Samples analyzed by LA Testing Ontario, CA NVLAP Lab Code 600239-0; CA ELAP 3053

Initial report from: 05/19/2023 19:36:16

OrderID: 7123	00694
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Job Nan	ne & Location   730	191		Billing Info				
51	51 State un	100	relty	Terra Enviror	mental Services	s Inc.		
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	9				terraeng.com		1	
Sample Analysis		is of Bu	lk Materia	ils via EPA 60	00/R-	TAT	46	hrC
ID #	Material Description	HM		of Sample		Condition	Friable	Quantity
	. /	11111	Location	of Sample		Condition	riable	
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LA Testing Order: 712300695 Customer ID: 32TESV78

Customer PO: Project ID:

Attention: Lab results Phone: (562) 868-3777

Terra Environmental Services Fax:

12631 Imperial Hwy **Received Date:** 05/19/2023 8:30 AM

Suite A225 Analysis Date: 05/22/2023

Santa Fe Springs, CA 90670 Collected Date:

Project: 73991 / ROOF TVF #2 / 5151 STATE UNIVERSITY, LOS ANGELES, CA

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	<u>stos</u>	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
37-Shingle	ROOF W/S - FELT ON ROOF	Gray/Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected	
712300695-0001 37-Felt 1	COMPOSITIVE ROOF W/S - FELT	Heterogeneous Black	10% Glass	90% Non-fibrous (Other)	None Detected	
712300695-0001A	ON ROOF COMPOSITIVE	Fibrous Homogeneous				
37-Felt 2	ROOF W/S - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected	
712300695-0001B	COMPOSITIVE	Homogeneous				
37-Felt 3	ROOF W/S - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected	
712300695-0001C	COMPOSITIVE	Homogeneous				
37-Tar	ROOF W/S - FELT ON ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
712300695-0001D	COMPOSITIVE	Homogeneous				
37-Paper	ROOF W/S - FELT ON ROOF	Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected	
712300695-0001E	COMPOSITIVE	Homogeneous				
38-Shingle	ROOF N/E - FELT ON ROOF	Gray/Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected	
712300695-0002	COMPOSITIVE	Heterogeneous				
38-Felt 1	ROOF N/E - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected	
712300695-0002A	COMPOSITIVE	Homogeneous				
38-Felt 2	ROOF N/E - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected	
712300695-0002B	COMPOSITIVE	Homogeneous				
38-Tar	ROOF N/E - FELT ON ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
712300695-0002C	COMPOSITIVE	Homogeneous				
38-Paper	ROOF N/E - FELT ON ROOF	Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected	
712300695-0002D	COMPOSITIVE	Homogeneous				
39-Shingle	ROOF E/S - FELT ON ROOF	Gray/Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected	
712300695-0003	COMPOSITIVE	Heterogeneous				
39-Felt 1	ROOF E/S - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected	
712300695-0003A	COMPOSITIVE	Homogeneous				
39-Felt 2	ROOF E/S - FELT ON ROOF	Black Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected	
712300695-0003B	COMPOSITIVE	Homogeneous				
39-Felt 3	ROOF E/S - FELT ON ROOF	Black Fibrous		90% Non-fibrous (Other)	10% Chrysotile	
712300695-0003C	COMPOSITIVE	Homogeneous				
39-Tar	ROOF E/S - FELT ON ROOF	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
712300695-0003D	COMPOSITIVE	Homogeneous				

Initial report from: 05/22/2023 19:13:12



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LA Testing Order: 712300695 Customer ID: 32TESV78

> Customer PO: Project ID:

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
39-Paper 712300695-0003E	ROOF E/S - FELT ON ROOF COMPOSITIVE	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
40-Silver Paint 712300695-0004	PENETRATION N/E - BLACK MASTIC	Silver Non-Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (Other)	None Detected
40-Mastic 712300695-0004A	PENETRATION N/E - BLACK MASTIC	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
41-Silver Paint/Mastic 712300695-0005 Unable to separate.	PENETRATION W/N - BLACK MASTIC	Gray/Black/Silver Non-Fibrous Heterogeneous		94% Non-fibrous (Other)	6% Chrysotile
42-Coating 712300695-0006	PENETRATION E/S - BLACK MASTIC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
42-Silver Paint/Mastic 712300695-0006A Unable to separate.	PENETRATION E/S - BLACK MASTIC	Black/Silver Non-Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected

Analyst(s)

Humberto Espinoza Bajo (8) Olivia Santiago (14) Olivia Santiago, Laboratory Manager or Other Approved Signatory

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Samples analyzed by LA Testing Ontario, CA NVLAP Lab Code 600239-0; CA ELAP 3053

Initial report from: 05/22/2023 19:13:12



2000 tyf #2

Job Name & Location 7390								Billing Info:							
5151 State University								Terra Environmental Services Inc.							
LOS angeles CA								12631 Imperial Hwy Suite A225 Santa Fe Springs CA 90760							
LO	5	नार्	10102		77			srael@terrae							
Sample PLM – Asbestos Analysis of Bulk Mar Analysis: 93/116 Method using Polarized Ligh							laterials via EPA 600/R-					48hrs			
ID#	Materia				НМ	Location				Con	dition	Friable	Quantity		
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## United States Department of Commerce National Institute of Standards and Technology



# Certificate of Accreditation to ISO/IEC 17025:2017

**NVLAP LAB CODE:** 600239-0

## LA Testing-Ontario

Ontario, CA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

## Asbestos Fiber Analysis

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2022-01-01 through 2022-12-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program

## National Voluntary Laboratory Accreditation Program



## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

LA Testing-Ontario

4335 E. Airport Drive Unit 110 Ontario, CA 91761 Ms. Carolynn Tom

Phone: 909-295-8625 Fax: 909-295-6826

Email: ctom@emsl.com http://www.emsl.com/

## **ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 600239-0** 

## **Bulk Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A01	EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Ashestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program



**CERTIFICATIONS** 







### STATE OF CALIFORNIA DEPARTMENT OF PUBLIC HEALTH



## LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:

CERTIFICATE TYPE:

NUMBER:

EXPIRATION DATE:

Lead Sampling Technician

LRC-00004429

12/7/2023

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at <a href="https://www.cdph.ca.gov/programs/elppb">www.cdph.ca.gov/programs/elppb</a> or calling (800) 597-LEAD

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Ulises Monsalvo, CDPH-Lead Sampling Technician# LRC-00004429 Cal/OSHA-Certified Site Surveillance Technician #04-3604







## STATE OF CALIFORNIA DEPARTMENT OF PUBLIC HEALTH



## LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:

CERTIFICATE TYPE:

NUMBER:

EXPIRATION DATE:

Lead Inspector/Assessor

LRC-00001220

9/1/2023

Lead Project Monitor

LRC-00001219

9/1/2023

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Israel Monsalvo, CAC, CDPH-I/A & PM

Cal/OSHA-Certified Asbestos Consultant #04-3551

California Department of Public Health-Certified I/A, PM #LRC-00001220