1220 Concord Avenue, Suite 450
Concord, CA 94520
P (510) 547-7771
Terracon.com

May 23, 2024

Dinah Baharin
Facilities Project Manager
Contra Costa Community College District
500 Court Street
Martinez, CA 94553

Re: D-1241 Roof Replacement Learning Center (LC)
Pre-Renovation Asbestos Roof Survey
Diablo Valley College – Learning Center
321 Golf Club Road, Pleasant Hill, CA
Terracon Project No. R1247270

Dear Ms. Baharin,

Terracon Consultants, Inc. (Terracon) conducted a pre-renovation asbestos survey of the roof of the Learning Center building at Diablo Valley College (DVC) located at 321 Golf Club Road in Pleasant Hill, California. The asbestos survey was performed on April 8, 2024 by Matt Chin and Ken Pilgrim in accordance with the requirements of the National Emissions Standard for Hazardous Air Pollutants (NESHAP). Matt Chin and Ken Pilgrim are certified by the California Division of Occupational Safety and Health (Cal/OSHA) as Certified Asbestos Consultants (CAC#s 08-4332 and 03-3503, respectively). The survey was supervised by Steffen Steiner, a Cal/OSHA Certified Asbestos Consultant (CAC# 92-0850).

Eighteen (18) bulk samples were collected from six (6) homogeneous areas of suspect ACM, many of which consisted of multiple layers. A homogeneous area of suspect ACM is an area of materials or areas of materials that is uniform in color and texture and that appears to have been installed at the same time. Typical homogeneous areas might include a resilient flooring system or a wallboard system. Bulk samples were submitted under chain of custody to SGS North America of Hayward, California for analysis by polarized light microscopy (PLM) with dispersion staining techniques per EPA methodology (40 CFR 763, Subpart E). The percentage of asbestos, where applicable, was determined by microscopical visual estimation.

Results and Conclusions

The following materials were sampled and laboratory analysis reported no asbestos detected in any of the layers.

- Tar and gravel roof field
- Composition roofing curbs – HVAC (heating, ventilation, and air conditioning) units
- Composition roofing curbs – roof perimeter
- Roof mastics – black/grey
- Roof walking pads
- HVAC sealant - grey

A copy of the laboratory analytical report and the associated chain of custody are attached to this report. Sample locations, material descriptions, and material locations, can be found in the chain of custody. A copy of the sample location field diagram is also attached to this report.

Any materials that are not characterized in this report or materials that are subsequently revealed during demolition must be assumed to contain asbestos until sampling and analysis prove otherwise.

Limitations

Asbestos sampling was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during the sampling event. This letter report has been prepared on behalf of and exclusively for use and reliance by the Client. This report is not a bidding document. Contractors or consultants reviewing this sampling report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories, or other third parties supplying information, which may have been used in the preparation of this report. No warranty, express or implied is made.

Terracon appreciates the opportunity to provide this service to the Contra Costa Community College District. If you have any questions regarding this asbestos survey report, please contact the undersigned at 510-899-7005.

Sincerely,
Terracon Consultants, Inc.

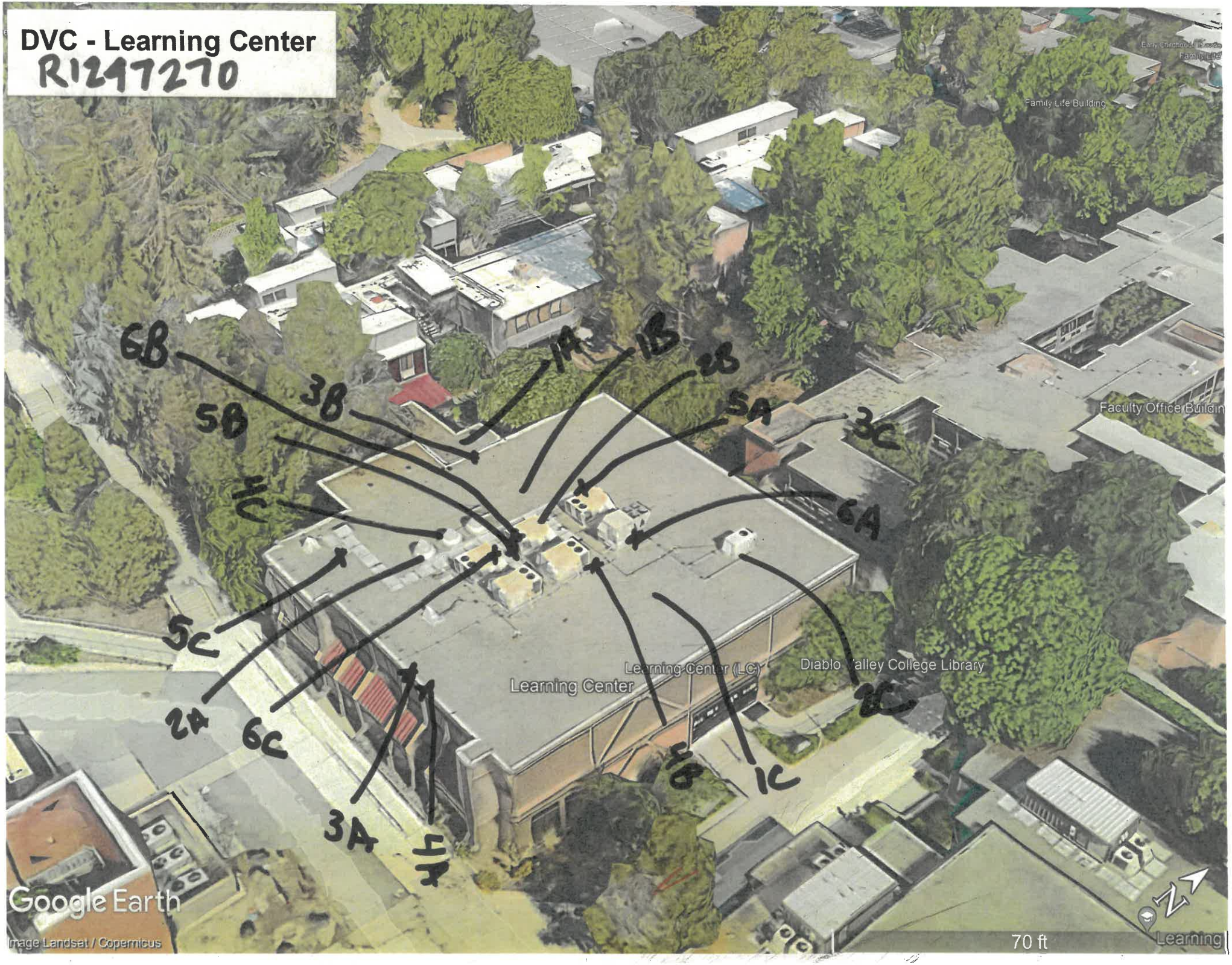
Prepared By:

Steffen Steiner, CAC
Office Manager

Reviewed By:

Denise Wallen, CSST
Project Manager

Attachments


DVC - Learning Center
R1247270
6B
3B
5B
4C
1A
1B
2B
5A
3C
6A
5C
2A
6C
3A
4A
4B
1C
2C
Learning Center (LC)
Learning Center
Diablo Valley College Library
Family Life Building
Faculty Office Buildin
Google Earth
Image Landsat / Copernicus
70 ft
Learning

Final Report

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-0

Terracon - Concord
S.Steiner
1220 Concord Ave
suite 450
Concord, CA 94520

Client ID: L1969
Report Number: B358898
Date Received: 04/08/24
Date Analyzed: 04/09/24
Date Printed: 04/09/24
First Reported: 04/09/24

Job ID/Site: R1247270 - Learning Center - DVC- Roof

Date(s) Collected: 04/08/2024

SGSFL Job ID: L1969
Total Samples Submitted: 18
Total Samples Analyzed: 18

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1A	12740520						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %) Fibrous Glass (40 %)							
Comment: Bulk complex sample.							
1B	12740521						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %) Fibrous Glass (45 %)							
1C	12740522						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %) Fibrous Glass (40 %)							
Comment: Bulk complex sample.							
2A	12740523						
Layer: White Roof Shingle			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %) Fibrous Glass (40 %)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
2B	12740524						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: White Roof Shingle			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %) Fibrous Glass (50 %)							
Comment: Bulk complex sample.							
2C	12740525						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: White Roof Shingle			**ND**				
Layer: Brown Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (30 %)							
Comment: Bulk complex sample.							
3A	12740526						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: White Roof Shingle			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %) Fibrous Glass (40 %)							
Comment: Bulk complex sample.							
3B	12740527						
Layer: White Roof Shingle			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %) Fibrous Glass (40 %)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
3C	12740528						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: White Roof Shingle			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Fibrous Glass (45 %) Comment: Bulk complex sample.		**Asbestos (ND)**					
4A	12740529						
Layer: Black Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (ND)**					
4B	12740530						
Layer: Black Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (ND)**					
4C	12740531						
Layer: Black Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (ND)**					
5A	12740532						
Layer: Stones			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (45 %)		**Asbestos (ND)**					
5B	12740533						
Layer: Stones			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (45 %)		**Asbestos (ND)**					

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Report Number: B358898

Client Name: Terracon - Concord **Date Printed:** 04/09/24

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5C	12740534						
Layer: Stones			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (45 %)		**Asbestos (ND)**					
6A	12740535						
Layer: Grey Sealant			**ND**				
Total Composite Values of Fibrous Components: Cellulose (3 %)		**Asbestos (ND)**					
6B	12740536						
Layer: Grey Sealant			**ND**				
Total Composite Values of Fibrous Components: Cellulose (3 %)		**Asbestos (ND)**					
6C	12740537						
Layer: Grey Sealant			**ND**				
Total Composite Values of Fibrous Components: Cellulose (3 %)		**Asbestos (ND)**					

Maria E. Cosper

Maria Cosper, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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Terracon

1220 Concord Ave, Concord, CA 94520
Tel: (510) 547-7771

ACM BULK SAMPLE DATA SHEET
☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

Page 1 of 2

☒ PM – S. Steiner spsteiner@terracon.com
☐ PM – K. Schroeter kmschroeter@terracon.com
☐ PM – K. Pilgrim kmpilgrim@terracon.com
☐ PM – David Block David.Block@terracon.com
☐ PM – T. Kattchee takattchee@terracon.com
☐ M. Chin mpchin@terracon.com
☐ H. Santos Heidi.Santos@terracon.com
☐ D. Wallen Denise.Wallen@terracon.com

☐ EmLab ☐ MAL ☒ SGS Forensic

☐ RUSH ☒ 24 Hrs. ☐ 48 Hrs. ☐ 3 Days

Project Name/Address/Building No.: LEARNING CENTER - DVC - ROOF
Project #: 12147270 **Sampled By:** MC/KP **Sampling Date:** 4/8/24

HM#	Material Description: TAR & GRAVEL	
Sample ID	**Sample Location & Material Location**	**Quantity:**
1A	WEST FIELD - Stairwell / ELEVATOR	
1B	Main FIELD - @ Center	
1C	" - EAST	

HM#	2	Material Description: Composition Roofing Curbs - HVAC	
Sample ID	**Sample Location & Material Location**		**Quantity:**
2A	SW EXHAUST Curb		
2B	CENTER EAST HVAC		
2C	NW HVAC UNIT		

HM#	3	Material Description: Composition Roof - Curbs - Perimeter	
Sample ID	**Sample Location & Material Location**		**Quantity:**
3A	South PERIMETER @ Center		
3B	WEST PERIMETER @ Stairs		
3C	North PERIMETER @ Center		

HM#	4	Material Description: Roof Mastics BLACK/GREY	
Sample ID	**Sample Location & Material Location**		**Quantity:**
4A	South PERIMETER Curb @ Center		
4B	CENTER HVAC UNIT		
4C	Center Exhaust FAN		

DTO
APR 0 9 2024
BY: JC 3pm

Relinquished: M. Chin Signature: [signature] Date: 4/8/24 Received: Joseph McConnell Signature: [signature] Date: 4/8/24
Relinquished: _____ Signature: _____ Date: _____ Received: _____ Signature: _____ Date: _____

Terracon Project #: R1247270 Date: 4/8/24 Page: 2 of 2

HM# 5	Material Description: WALKING PADS	
Sample ID	Sample Location & Material Location	Quantity:
5A	North End of Pads	
5B	Center Area of Pads	
5C	SW Area of Pads	

HM# 6	Material Description: Grey HVAC SEALANT	
Sample ID	Sample Location & Material Location	Quantity:
6A	NE HVAC - FLASING	
6B	Center - ~~EAST~~ WEST - HVAC - FLASHING	
6C	~~SW~~ SW HVAC - FLASHING	

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

RECEIVED
APR 0 8 2024
BY: JC 3pm

Initials:

State of California

Division of Occupational Safety and Health

Certified Asbestos Consultant

Matthew P Chin

Name

Certification No. **08-4332**

Expires on **02/21/25**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Kenneth McRae Pilgrim
Name

Certification No. **03-3503**

Expires on **12/17/24**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Steffen Paul Steiner
Name

Certification No. **92-0850**

Expires on **01/08/25**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.