

**TERRA**  
Environmental

TO: JERRY MIERS  
Facilities Project Supervisor  
Facilities Services  
California State University Los Angeles  
5151 State University Drive  
Los Angeles, CA 90032

**LIMITED ASBESTOS SURVEY REPORT**  
**CSULA – King Hall**  
**Room 3098 -B**  
**5151 State University Drive**  
**Los Angeles, CA 90032**

Date Prepared: March 11, 2020

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## **I. Executive Summary and Purpose**

At the request of Mr. Jerry Miers of California State University Los Angeles, Terra Environmental Services conducted a limited asbestos survey at California State University Los Angeles – King Hall Room 3098 - B located at 5151 State University Los Angeles, CA 90032. The Survey was authorized by Mr. Miers in acceptance of Terra Proposal for Asbestos Consulting Services.

## **II. Scope of services**

The scope of this investigation included a visual inspection of King Hall Room 3098 - B, digital photography of key observations, sample collection of suspect asbestos containing building materials with laboratory analysis of samples, and production of this written report of findings, conclusions, and recommendations.

The building materials included in this assessment are those expected to be impacted during the renovation project. In general, the renovation project will involve the disturbance of the walls in King Hall Room 3098 - B.

## **III. Visual Survey, Sampling Methodology, and Analytical Procedures**

### **a. Visual Survey**

The Visual Survey consisted of a walk-through and visual inspection of the affected building. It included the identification of all suspect asbestos containing materials and the physical touching of suspect ACBM in an effort to determine the friability and condition of said materials.

In surveying the building, we used our training in identifying asbestos-containing materials, our familiarity with building construction and our general experience to locate potential sources of ACM and ACCM.

This evaluation was performed in accordance with the Asbestos-Containing Materials in Buildings rule prepared by the U.S. EPA. Destructive sampling collection methods were used by Terra Environmental on site representative. The asbestos building survey was performed by Mr. Oscar Sanchez Jr. AHERA Certified Asbestos Building Inspector (DOSH CSST Trainee) under the supervision of Mr. Israel Monsalvo a California, Division of Occupational Safety and Health (DOSH)-Certified Asbestos Consultant, CAC #04-3551 on March 10, 2020.

### **b. Sampling Methodology**

The next phase of the survey was the selection of sampling areas and collection of bulk samples. Material sampling areas were grouped based on material homogeneity. A homogeneous material is one, which contains the same texture, color, and uniform, applied during the same general time period. Terra employed destructive sampling

methods for the collection of bulk samples. All sampled materials were in good condition at the time of the inspection and sample collection.

#### c. Analytical Procedures

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 use of this method enables identification of the type and the percentage of asbestos in a given sample. The detection limit of the PLM method for asbestos identification is about 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 by Terra Environmental as ACCM in the State of California.

Terra Environmental collected a total of six (6) bulk samples of suspect ACM that were analyzed fifteen (15) times on a layer by layer basis. The samples were transferred following proper chain of custody protocol to AIH Laboratory located at 2556 W Woodland Dr Anaheim, CA 92801, for analysis.

AIH Laboratory is an accredited laboratory for bulk asbestos analysis under the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (Certification Number 500079-0). 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).

## **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 and bulk sample analysis results revealed the following Asbestos-Containing Materials:

Homogeneous Material	Location	Lab Sample Numbers	Asbestos detected	Quantity
Plaster	Room 3098 – B Wall behind Covebase	200337201 200337202 200337203	None Detected	300 Sq. Ft.
Dark Green Covebase w/Adhesive	Room 3098 – B Lower Wall	200337204 200337205 200337206	None Detected	10 Sq. Ft.

### Recommendations for handling ACM: NONE

No Asbestos containing materials will be impacted by the renovation project activities in CSULA King Hall Room 3098-B.

**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:

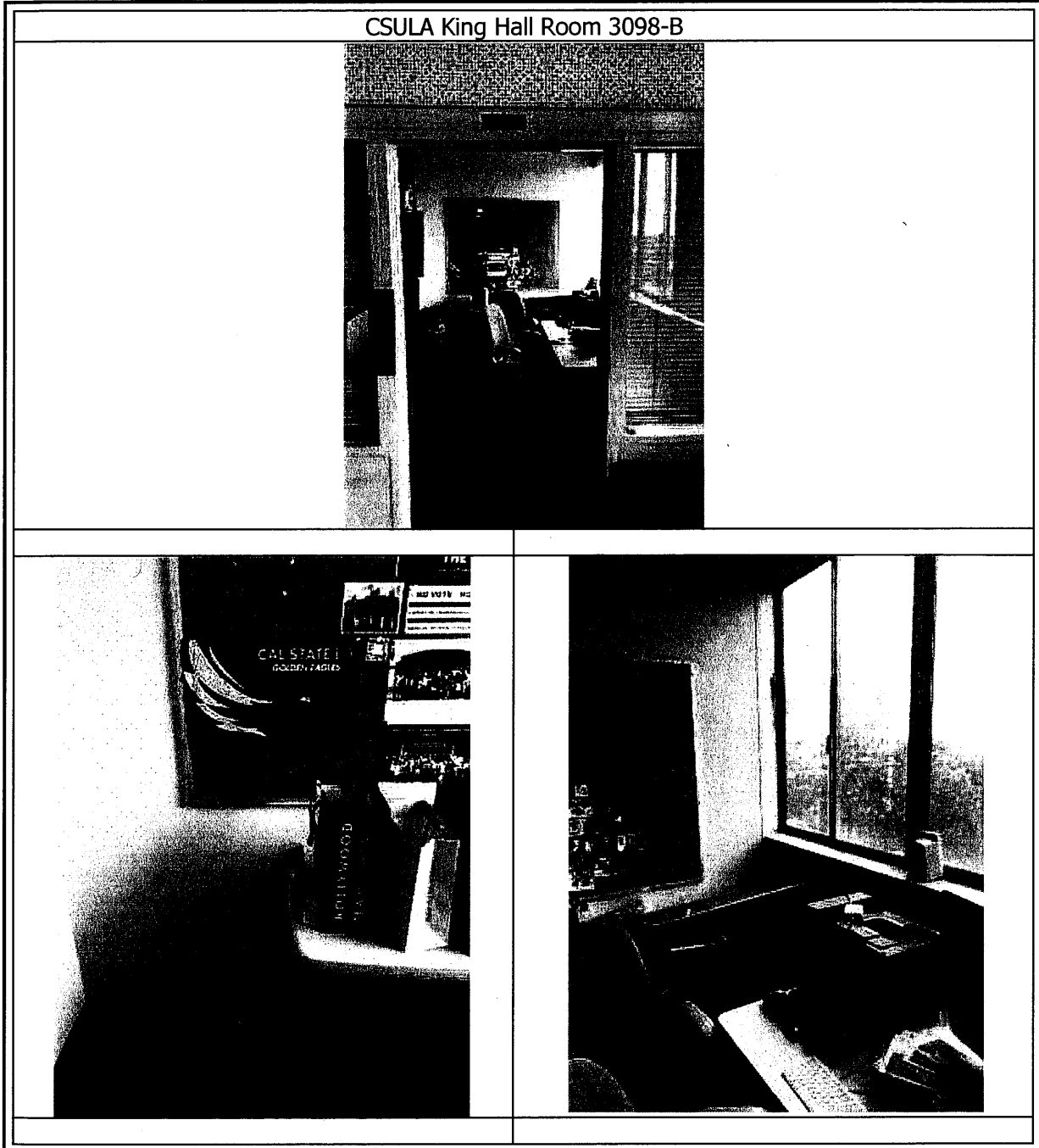


Israel Monsalvo,  
 CA DOSH Certified Asbestos Consultant  
 CAC #04-3551  
 Terra Environmental Services

### VI. Confidentiality and Limitations

This report has been prepared for the sole use of California State University Los Angeles (CSULA). 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.

## Site Photos



**LABORATORY RESULTS  
AND COC**



**BULK ASBESTOS FIBER ANALYSIS**  
BY POLARIZED LIGHT MICROSCOPY



2556 W Woodland Dr Anaheim, CA 92801

Phone: (562) 860-2201  
www.aihlab.com

**Client Name:** Terra Environmental  
**Project Manager:** Israel Monsalvo  
**Client Address:** 12631 Imperial Hwy Ste A225 Santa Fe Springs, CA 90670  
**Project Number:** 72380  
**Project Location:** Cal State-King Hall-Room 3098-B

**Lab Batch Number:** 2003372  
**Samples Submitted:** 6  
**Samples Analyzed:** 6  
**Analysis Method:** EPA Method 600/R-93-116 & EPA 600/M4-82-020

**Lab ID: 200337201**

**Client ID: AS1**

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Soft white sandy material with paint	None Detected	None Detected	Binder/Filler, Paint
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

**Lab ID: 200337202**

**Client ID: AS2**

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Soft white sandy material with paint	None Detected	None Detected	Binder/Filler, Paint
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

**Lab ID: 200337203**

**Client ID: AS3**

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Soft white sandy material with paint	None Detected	None Detected	Binder/Filler, Paint
2.	Grey sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

**Lab ID: 200337204**

**Client ID: AS4**

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black flat rubbery material	None Detected	None Detected	Binder/Filler
2.	Tan mastic	None Detected	None Detected	Mastic/Binder
3.	Soft white sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains





**BULK ASBESTOS FIBER ANALYSIS**  
BY POLARIZED LIGHT MICROSCOPY



2556 W Woodland Dr Anaheim, CA 92801

Phone: (562) 860-2201  
www.aihlab.com

**Client Name:** Terra Environmental  
**Project Manager:** Israel Monsalvo  
**Client Address:** 12631 Imperial Hwy Ste A225 Santa Fe Springs, CA 90670  
**Project Number:** 72380  
**Project Location:** Cal State-King Hall-Room 3098-B

**Lab Batch Number:** 2003372  
**Samples Submitted:** 6  
**Samples Analyzed:** 6  
**Analysis Method:** EPA Method 600/R-93-116 & EPA 600/M4-82-020

**Lab ID:** 200337205

**Client ID:** AS5

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black flat rubbery material	None Detected	None Detected	Binder/Filler
2.	Tan mastic	None Detected	None Detected	Mastic/Binder
3.	Soft white sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

**Lab ID:** 200337206

**Client ID:** AS6

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black flat rubbery material	None Detected	None Detected	Binder/Filler
2.	Tan mastic	None Detected	None Detected	Mastic/Binder
3.	Soft white sandy material	None Detected	None Detected	Binder/Filler, Mineral Grains

**Analyzed by:** Hanaa Armanious

**Signature:**

**Date:** 03-10-2020

**Reviewed by:** Zubair Ahmed

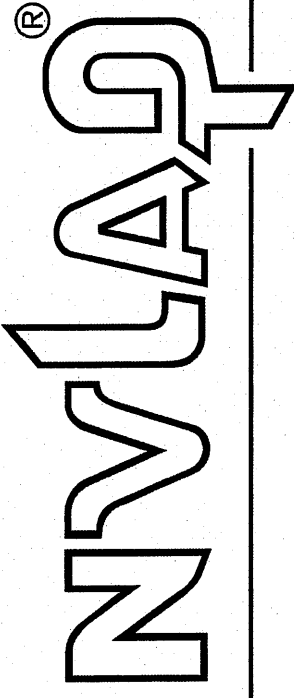
**Signature:**

**Date:** 03-10-2020

Reporting limit is 1%. If the sample was not collected by AIH Laboratory then the accuracy of the results is limited by the methodology and experience of the sample collector. Clients can verify specific reporting limit requirement from local regulatory agencies. Liability limited to cost of samples analysis. This report shall not be reproduced except in full, without written approval of AIH Laboratory. It shall not be used to claim product endorsement by NVLAP or any other agency of the government. Reported results relate only to the samples tested and may not be the representative of the sample area. AIH Laboratory shall dispose of the Customer's samples 30 days after receiving the samples unless instructed to store them for an alternate period of time in writing.



United States Department of Commerce  
National Institute of Standards and Technology



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**Certificate of Accreditation to ISO/IEC 17025:2005**

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NVLAP LAB CODE: 500079-0

**AIH Laboratory**  
Anaheim, CA

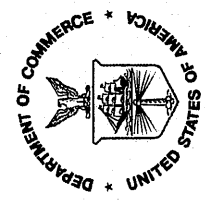
is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:

**Asbestos Fiber Analysis**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2019-10-01 through 2020-09-30  
Effective Dates

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*John S. Lamm*  
For the National Voluntary Laboratory Accreditation Program



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**AIH Laboratory**  
2556 W. Woodland Dr.  
Anaheim, CA 92801  
Mr. Zubair M. Ahmed  
Phone: 206-979-1415  
Email: bestoflive@live.com  
<http://www.aihlab.com>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 500079-0**

**Bulk Asbestos Analysis**

**Code**

**Description**

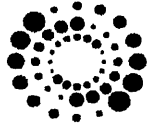
18/A01

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 Asbestos in Bulk Building Materials

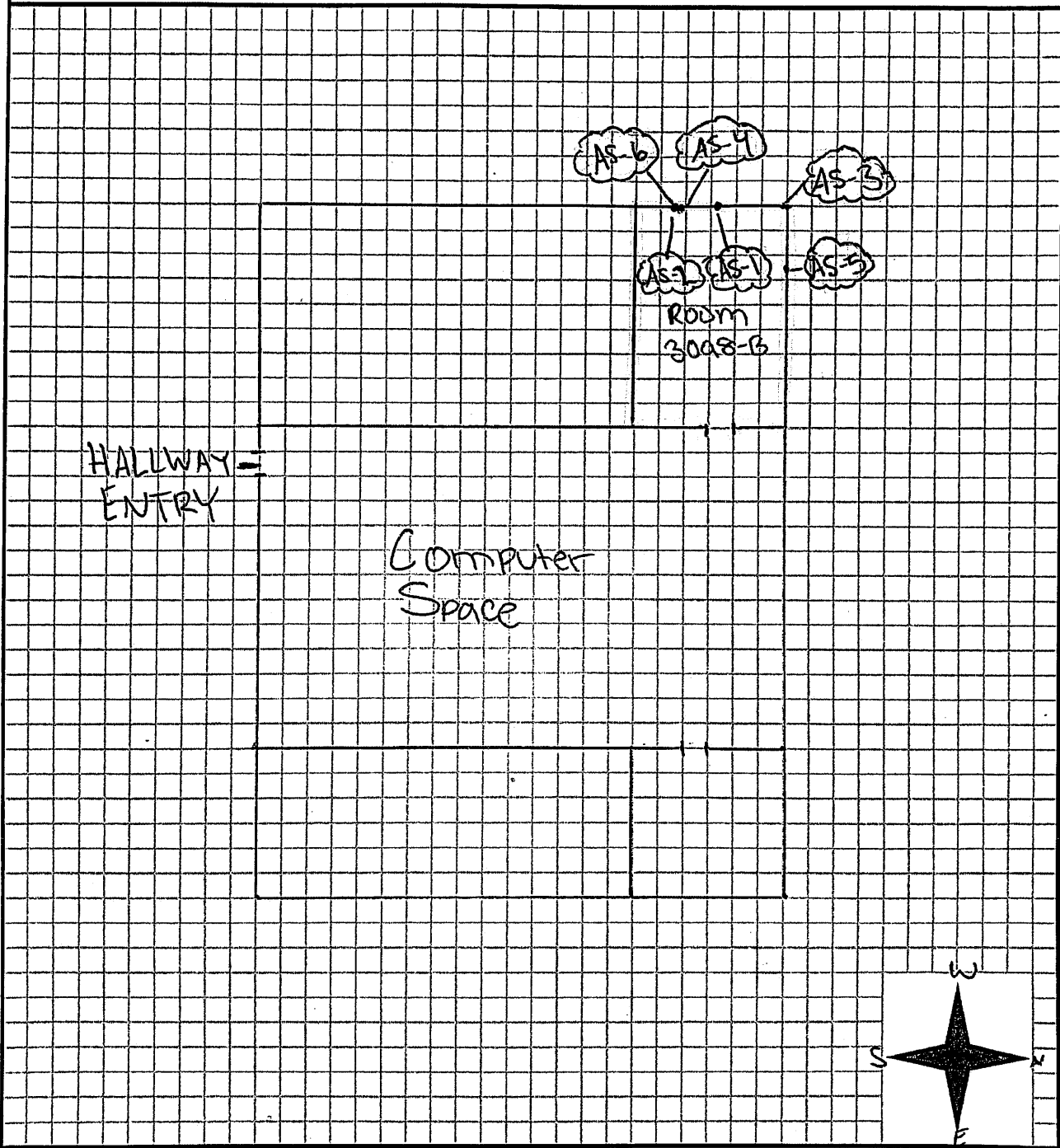
For the National Voluntary Laboratory Accreditation Program



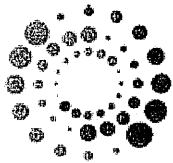
**Terra**  
Environmental

Project # 72380  
Date: 03/10/2020  
Type of Work: AS

Customer CAL STATE LA  
Project Name: 7238 AS  
Project Address: CAL STATE LA - KING HALL - ROOM 3098-B



CERTIFICATIONS



**TERRA**  
Environmental


<h1>Certificate Of Completion</h1>			
<b>Asbestos Building Inspector Refresher Course</b>			
DOSH #:CA-015-06			
<b>Oscar Sanchez Jr.</b>			
ABIR0106200021N22586			
<b>David Wallach</b>			
Principal Instructor		Training Director	
<u>1/6/2020</u>	<u>1/6/2020</u>	<u>1/6/2020</u>	<u>1/6/2021</u>
Course Start Date	Course End Date	Exam Date	Expiration Date
This course satisfies the education requirements for Asbestos accreditation under the Toxic Substances Control Act, Title II. This course has been approved by the Department of Industrial Relations, Division of Occupational Safety and Health of the State of California			
NATEC International, Inc.			
National Association of Training and Environmental Consulting			
1100 Technology Circle- Suite A, Anaheim, CA 92805 • www.natecintl.com • 800-969-3228			



STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC HEALTH



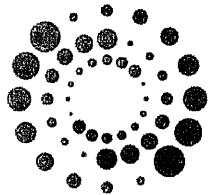
## LEAD-RELATED CONSTRUCTION CERTIFICATE

<b>INDIVIDUAL:</b>	<b>CERTIFICATE TYPE:</b>	<b>NUMBER:</b>	<b>EXPIRATION DATE:</b>
	Lead Sampling Technician	LRC-00000441	4/23/2020

Oscar Sanchez

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 [www.cdph.ca.gov/programs/clppb](http://www.cdph.ca.gov/programs/clppb) or calling (800) 597-LEAD.

12631 Imperial Hwy. Suite A225 Santa Fe Springs, CA 90670  
Tel 562.868.3777 Fax 562.868.3778 www.terraeng.com



**TERRA**  
Environmental

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

**Israel Monsalvo**



Name

Certification No. **04-3551**

Expires on **05/20/20**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7100 et seq. of the Business and Professions Code.



STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC HEALTH



**LEAD-RELATED CONSTRUCTION CERTIFICATE**

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
 Israel Monsalvo	Lead Inspector/Assessor	LRC-00001220	9/1/2020
	Lead Project Monitor	LRC-00001219	9/1/2020

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 [www.cdph.ca.gov/programs/clppb](http://www.cdph.ca.gov/programs/clppb) or calling (800) 597-LEAD.

Israel Monsalvo, CAC, CDPH-I/A & PM  
Cal/OSHA-Certified Asbestos Consultant # 04-3551  
Lead Inspector /Assessor LRC-00001220  
Lead Project Monitor LCR-00001219

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