

TERRA
ENVIRONMENTAL

TO: Robert Salerno
Facilities Project Supervisor
California State University
5151 State University Drive
Los Angeles, CA 90032

LIMITED ASBESTOS SURVEY REPORT
King Hall – Elevator by Rm. C130

Date Prepared: January 2, 2019

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I. Executive Summary and Purpose

At the request of Mr. Robert Salerno of California State University Los Angeles Facilities Department Terra Environmental Services conducted a limited asbestos survey at King Hall located at 5151 State University Drive Los Angeles, CA 90032. The survey was authorized by Mr. Robert Salerno 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, 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 interior and exterior elevator wall.

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 ACM 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. Israel Monsalvo a DOSH CAC #04-3551 and Ms. Elnara Tagieva, a AHERA Certified Asbestos Building Inspector #ABIR0405180013N15367 (DOSHS CSST Trainee) on December 21, 2018.

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 seven (7) times on a layer by layer basis. The samples were transferred following proper chain of custody protocol to LA Testing located at 520 Mission Street South Pasadena, California 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 200232-0). 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-containing material (ACM) means any material containing more than 1% asbestos.

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
Drywall	Wall by the Elevator in front of Rm. C130	321829746-001 321829746-002 321829746-003	None Detected	82 Sq. Ft.
Stucco	Wall Exterior by the Elevator	321829746-004 321829746-005 321829746-006	None Detected	25 Sq. Ft.

Recommendations for handling ACCM: None

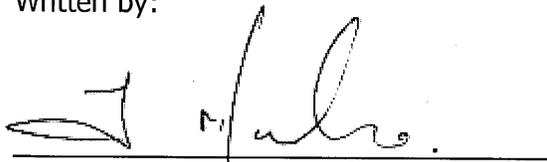
No asbestos containing materials will be impacted by the renovation project activities.

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

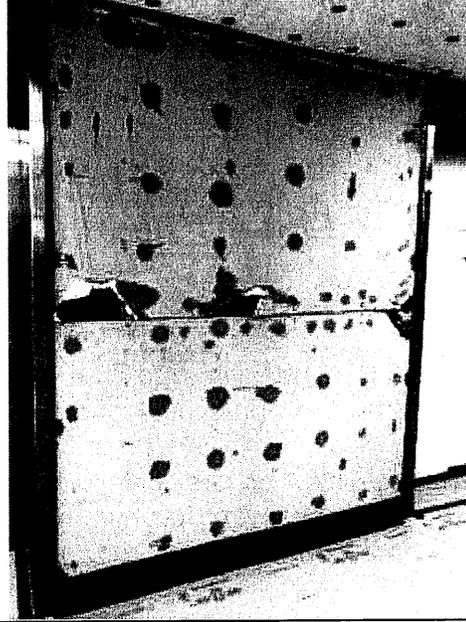
This report has been prepared for the sole use of California State University Los Angeles. Material quantities are, in some cases, listed within this document. Those quantities are not intended to be used for removal bidding purposes. This document also is not intended as a contract manual; work methods 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

King Hall - Elevator by Rm. C130



General view of work area



Non-ACM Drywall



Non-ACM Drywall



Non-ACM Stucco

ASBESTOS RESULTS
AND COC



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

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

LA Testing Order: 321829746

Customer ID: 32TESV78

Customer PO:

Project ID:

Attention: Israel Monsalvo
Terra Environmental Services
12631 Imperial Hwy
Suite A225
Santa Fe Springs, CA 90670

Phone: (562) 868-3777

Fax:

Received Date: 12/21/2018 12:25 PM

Analysis Date: 12/26/2018

Collected Date:

Project: 71655 / Cal State LA, King Hall

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
B01 321829746-0001	Wall by the elevator N - Drywall	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
B02 321829746-0002	Wall in front of room C130 E - Drywall	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
B03 321829746-0003	Wall in front of room C130 S - Drywall	Tan/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
B04-Finish Coat 321829746-0004	Wall exterior by the elevator S - Stucco	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B04-Base Coat 321829746-0004A	Wall exterior by the elevator S - Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B05 321829746-0005	Wall exterior by the elevator W - Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B06 321829746-0006	Wall exterior by the elevator N - Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Arturo Casas (2)

Julie Vong (5)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

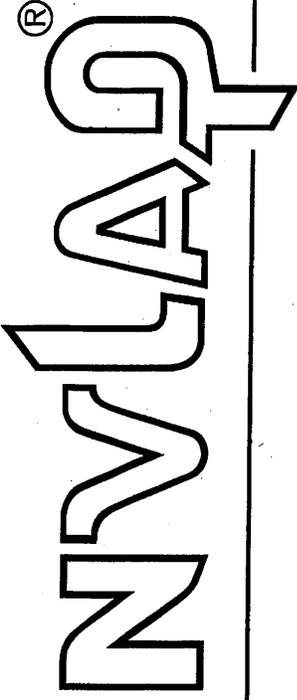
EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. 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. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

Initial report from: 12/26/2018 11:08:26

CERTIFICATIONS

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200232-0

LA Testing
South Pasadena, 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).*

2017-07-01 through 2018-06-30

Effective Dates

A handwritten signature in black ink, appearing to read "John S. Lamm".

For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

LA Testing

520 Mission Street

South Pasadena, CA 91030

Mr. Jerry Drapala Ph.D.

Phone: (323) 254-9960 Fax: (323) 254-9982

Email: jdrapala@latesting.com

<http://www.latesting.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200232-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- 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

Airborne Asbestos Analysis

Code

Description

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

A handwritten signature in black ink, appearing to read "John S. Laman".

For the National Voluntary Laboratory Accreditation Program

Certificate of Completion

Asbestos Building Inspector Refresher Course

DOSH #: CA-015-06

Elnara Tagieva

ABIR0405180013N15367

Paul Semper

Principal Instructor

4/5/2018

Course Start Date

4/5/2018

Course End Date

4/5/2018

Exam Date

4/5/2019

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

Michael W. Horner

Michael W. Horner
Training Director

Important Industry Contacts

CAL-OSHA: Ph# (916) 574-2993
(916) 483-0572 Fax Notification
Web: www.dir.ca.gov or calosha.com

CDPH/CLPPB: Ph# (510) 620-5600
Web: www.cdph.ca.gov/programs/CLPPB

SCAQMD: Ph# (909) 396-3739
Fax# (909) 396-3342

3AAQMD: Ph# (415) 749-4762

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Asbestos • Lead • Mold • HAZWOPER

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(714) 678-2750, (800) 969-3228, Fax (714) 678-2757
www.natecintl.com

NATEC International, Inc.

National Association of Training and Environmental Consulting
*Note: Card is not suitable substitute for certificate and is not accepted by SCAQMD as proof of certification

This Card Acknowledges That
Elnara Tagieva

Holds Training Certification For
Asbestos Building Inspector Refresher Course

(Valid for 12 months)

4/5/2018

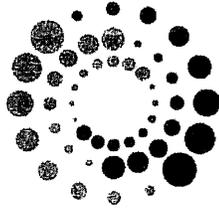
Training Date

ABIR0405180013N15367

Certificate No.

Michael W. Horner

Training Director



TERRA Environmental

State of California Department of Public Health

Lead-Related
Construction
Certificate

Inspector/Assessor	09/01/2019
Project Monitor	09/01/2019



Israel Monsalvo

ID #: **9699**

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

Israel Monsalvo

Name

Certification No. **04-3551**

Expires on **05/20/19**



This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7130 et seq. of the Business and Professions Code.

Israel Monsalvo, CAC, CDPH-I/A & PM
Cal/OSHA-Certified Asbestos Consultant #04-3551
CDPH-Certified Lead, I/A, PM # 9699