

April 3, 2019

KENNETH C. JANDA
DEAN, SCHOOL OF PHYSICAL SCIENCES

RE: February 2019 Air Monitoring Report for Rowland Hall

Dear Dean Janda,

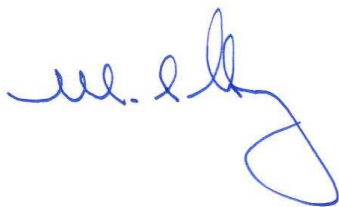
Additional air samples throughout Rowland Hall were taken outside of the containment area during the fifth-floor related construction activities on the overnight shift of February 4, 2019 and February 6, 2019. The attached report from Forensics Analytical Consulting Services (EH&S second asbestos consultant), dated March 12, 2019, provides additional limited air sampling that compliments the Omega air monitoring results from the specified locations throughout Rowland Hall. The Omega comprehensive report for February 2019 was submitted under a separate cover letter. We have reviewed the report and the air sample data has been determined to meet the Environmental Protection Agency (EPA) clearance criteria of 0.01 fibers per cubic centimeters of air (f/cc), which means the air quality in public spaces met or exceeded all applicable standards.

If you have any questions regarding the environmental health and safety of Rowland Hall, please don't hesitate to contact us via phone (**949.824.6889**) or email (**magomez@uci.edu**). After hours calls may be directed to 949.824.6200.

If you have any questions regarding the construction activities on the fifth floor of Rowland Hall, please contact Design and Construction Services Senior Project Manager Chris Schneider via email (**jcshnel@uci.edu**).

We look forward to a safe and successful completion of the Rowland Hall fire life safety improvement project. Please let us know if you have any questions.

Sincerely,



Marc A. Gomez
Assistant Vice-Chancellor
Environmental Health and Safety



Dick T. Sun
Associate Deputy Director
Environmental Health and Safety

Attachment

Asbestos Abatement Monitoring Report: Rowland Hall - Fire Life Safety Upgrade Project

*University of California, Irvine
EH&S Department
4600 Health Science Road
Irvine, CA 92679*

Prepared for:
Alvin Samala
UC Irvine EH&S Department
ramsamala@uci.edu

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Rancho Dominguez, CA 90221
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FACS Project #PJ40844

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Introduction

Forensic Analytical Consulting Services (FACS) was retained by the University of California Irvine (UCI) to represent its environmental interests during an asbestos abatement project conducted on the overnight shift of February 4, 2019, in Rowland Hall, located at Ring Road on the UCI Campus in Irvine, California. The project included spot abatement of asbestos fireproofing located at the fifth-floor men's (544) and women's restroom (546) area. The abatement was conducted under separate contract with UCI by Environmental Construction Group, of Signal Hill, a California licensed abatement contractor.

The contractor's scope of work consisted of the spot abatement (for attachment of pipe hangers and bracing) of sprayed on fireproofing on the ceiling in fifth-floor restrooms in association with the ongoing Fire Life Safety Upgrade Project. Abatement location drawings are included in Appendix G.

Methodology

Before commencement of abatement activities, an enclosure constructed with six-mil (0.006 inches) poly sheeting was secured over the work area. Differential pressure was achieved with a HEPA filtered negative air machine. A three-stage decontamination unit was positioned at the entry into the work area for worker entry and egress. Proper work activity signs were posted at the entry into the work area. Forensic personnel approved the areas for commencement of abatement activities after visual inspection of environmental controls.

The sprayed-on fireproofing was abated using wet methods and hand tools. All waste was double-bagged for removal from the work area. The waste was transported by the abatement contractor.

During the course of removal activities FACS monitored the work and collected air samples at the perimeter of the work area outside the containment barriers. The air samples were collected via electrically powered air-sampling pumps. The pumps were calibrated to draw a known volume of air through 0.8 mixed cellulose ester (MCE) sampling media housed in 25 millimeter cowed cassette. The sampling trains were pre-and post-calibrated in the field using a rotometer calibrated with a laboratory primary standard. The air samples were analyzed on-site via phase contrast microscopy (PCM) in accordance with the NIOSH 7400A method. The results are reported in fibers per cubic centimeter of air (f/cc).

Upon completion of removal work in the area, a visual inspection was conducted inside the work area by FACS personnel. Once the work area was visually approved, final air clearance monitoring was conducted inside the work enclosure. FACS' daily logs are presented in Appendix C.

Findings

Forensic Analytical performed work in progress air sampling to determine the quantity of airborne fibers in selected areas around the containment. As a reference point to the numbers generated by the analysis, the EPA recommends a maximum fiber concentration of 0.01 f/cc or less. The air samples collected during the project were below this level.

Upon completion of the removal activities, visual inspections were performed by FACS personnel and final clearance air monitoring was conducted. Clearance air sample results were below the EPA recommended level of 0.01 f/cc or less.

Air sampling data is summarized in the table presented in Appendix A. The laboratory reports and associated chain of custody are attached as Appendix B.

Conclusions

All air samples collected during the abatement activities and for clearance were less than the EPA recommended maximum of 0.01 f/cc or less for the reoccupation of an asbestos related work area.

To the best of FACS's knowledge, the abatement contractor followed applicable local, state, and federal regulations concerning abatement in the performance of the work. The contractor's documentation has been included in Appendix E of this report. Notification to the local regulatory agencies is included in Appendix F.

Limitations

This project is limited to the conditions and practices observed and information made available to FACS. The methods, findings, and conclusions provided are based on FACS' judgment, experience and the standard of practice for professional service. They are subject to the limitations and variability inherent in the methodology employed. This monitoring project is limited to the defined scope and does not purport to set forth all hazards, nor indicate that other hazards do not exist.

Please do not hesitate to contact our office on 310-668-5600 if you have any questions or concerns. Thank you for the opportunity to assist UCI in promoting a more healthful environment.

Respectfully,

FORENSIC ANALYTICAL

Reviewed by:

FORENSIC ANALYTICAL



Deeta Hong

CAC No. 17-5946



Stephen Long

CAC No. 92-0580



Appendix A

Air Monitoring Summary Table

UCI Rowland Hall – Asbestos Fireproofing Spot Abatement
5th Floor Men's (544) & Women's (546) Restroom Area

Date Sampled	Sample ID #	Location	Activity	Result (f/cc)
Laboratory Report #A247444				
02/04/19	6894	Outside work area - N. Exterior stairwell at differential pressure unit exhaust 5 th floor	Removal	0.002
	7008	Outside work area - 5 th floor outside decontamination chambers	Removal	0.007
	6959	Outside work area - 5 th floor hallway outside Rooms 539 & 540	Removal	0.004
	6928	Blank	N/A	N/A
	6931	Blank	N/A	N/A

Date Sampled	Sample ID #	Location	Activity	Result (f/cc)
Laboratory Report #A247407				
02/06/19	39281	5 th floor inside work area, center of women's restroom (546)	Clearance	0.002
	39275	5 th floor inside work area center of walkway between restrooms	Clearance	0.003
	39322	5 th floor inside work area center of men's restroom (544)	Clearance	0.004
	39385	Blank	N/A	N/A
	39292	Blank	N/A	N/A

END OF TABLE

Appendix B

Supporting Laboratory Reports and Chain of Custody Documents





Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Report Number: A247444

Date Analyzed: 02/04/19

Date Printed: 02/07/19

First Reported: 02/07/19

Job ID/Site: PJ40844; Roland Hall - Ambient Air Monitoring UCI Campus - Ring Road
Irvine CA 92697

Sample ID	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	Fibers/cc
6928	02/04/19	0.0	0.0	100	--	--
Comments:	This sample was analyzed on-site. This result was used to blank correct the other samples on this rpt. Blank filters are reported only as # of fibers & fields counted.					
6931	02/04/19	0.0	0.0	100	--	--
Comments:	This sample was analyzed on-site. This result was used to blank correct the other samples on this rpt. Blank filters are reported only as # of fibers & fields counted.					
6894	02/04/19	1177.8	6.0	100	0.002	0.002
Comments:	This sample was analyzed on-site.					
7008	02/04/19	1388.6	19.0	100	0.002	0.007
Comments:	This sample was analyzed on-site.					
6959	02/04/19	1378.0	10.0	100	0.002	0.004
Comments:	This sample was analyzed on-site.					

AIR SAMPLE REQUEST FORM

Client: **LA05 FACS Los Angeles UC Irvine - EH&S Department** Phone: **(310) 668-5600** Date: **02/04/19**

Contact: **Mark Smith** PM: **Mark Smith** Sampled by: **TSR**

Site: **Roland Hall - Ambient Air Monitoring**

Client No.: **C15808:00003** FACS Job #: **PJ40844**

Special Instructions: E-mail results to E-mail results to msmith@forensicanalytical.com and mrvias@forensicanalytical.com

Turnaround Time: < 12hr Same-D 1-Day 2-Day 3-Day 5-Day Other

Analysis: PCM / TEM: AHERA / Yamate II / NIOSH 7402 / CARB-AHERA Metals: Pb Other:

Calibration: Rotometer / Bubble Burette / Dry Cell No: Analyzed by: **TSR** Scope No.: **99631** Date: **02/04/19**

Sample No.	Sample Location	Type	Pump ID	LPM			Time On	Time Off	Total Volume	Fiber / Field	Fiber / CC
				Start	End	Average					
6928	Blank								0/100		
6931	Blank								0/100		
6920	QA/QC	<input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> C							0/100		
6894	N. exterior stairwell at DPU exhaust, 5th floor	<input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> C		2.6	2.6	2.255	0028	1177.8	6/100	0.002	
7008	5th floor outside decon	<input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> C		10.6	10.6	2300	0111	1388.6	19/100	0.007	
6959	5th floor hallway outside 539 i 540	<input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> C		10.6	10.6	2302	0112	1378	10/100	0.004	
		<input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> C									
		<input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> C									
Relinquished by: <i>[Signature]</i> Date & Time: 02/06/19 0600pm			Received by: <i>[Signature]</i> Date & Time: 02-06-19 8pm			Condition Acceptable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Date & Time: 02-06-19 8pm		
Relinquished by: <i>[Signature]</i> Date & Time: 02/06/19 0600pm			Received by: <i>[Signature]</i> Date & Time: 02/06/19 20			Condition Acceptable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Date & Time: 02-06-19 8pm		

* B - Background R - Removal C - Clearance



Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Report Number: A247407

Date Analyzed: 02/06/19

Date Printed: 02/07/19

First Reported: 02/07/19

Job ID/Site: PJ40844; Roland Hall - Ambient Air Monitoring UCI Campus - Ring Road
Irvine CA 92697

Sample ID	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	Fibers/cc
39385	02/06/19	0.0	0.0	100	--	--
Comments:	This sample was analyzed on-site. This result was used to blank correct the other samples on this rpt. Blank filters are reported only as # of fibers & fields counted.					
39292	02/06/19	0.0	0.0	100	--	--
Comments:	This sample was analyzed on-site. This result was used to blank correct the other samples on this rpt. Blank filters are reported only as # of fibers & fields counted.					
39281	02/06/19	1208.0	6.0	100	0.002	0.002
Comments:	This sample was analyzed on-site.					
39275	02/06/19	1208.0	7.0	100	0.002	0.003
Comments:	This sample was analyzed on-site.					
39322	02/06/19	1208.0	9.0	100	0.002	0.004
Comments:	This sample was analyzed on-site.					

AIR SAMPLE REQUEST FORM

Client: LA05 FACS Los Angeles UC Irvine - EH&S Department
Contact: Mark Smith Phone: (310) 668-5600
Site: Roland Hall - Ambient Air Monitoring
Client No.: C15808:00003 FACS PJ40844 Job #:
Calibration: Rotometer / Bubble Burette / Dry Cell No.:

Sampled by: TSR **PM:** Mark Smith **Date:** 02/02/19
Special Instructions: E-mail results to E-mail results to msmith@forensicanalytical.com and mrvivas@forensicanalytical.com
Turnaround Time: < 12hr Same-D 1-Day 2-Day 3-Day 5-Day Other
Analysis: PCM / TEM: AHERA / Yamate II / NIOSH 7402 / CARB-AHERA
 Metals: Pb Other:

Code F: YEL **Analyzed by:** TSR **Date:** 02/02/19 **Scope No.:** 292031

Sample No.	Sample Location	Type	Pump ID	LPM			Time On	Time Off	Total Volume	Fiber / Field	Fiber / CC
				Start	End	Average					
39385	Blank								0/100		
39292	Blank								0/100		
39285	QA/QC	<input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> C							0/100		
39281	5th floor inside workarea ctr. Women's RR	<input type="checkbox"/> B <input checked="" type="checkbox"/> R <input type="checkbox"/> C	15.1	15.1	15.1	0132	0252	1208	6/100	0.002	
39275	5th floor inside workarea ctr. walkway between RRs	<input type="checkbox"/> B <input checked="" type="checkbox"/> R <input type="checkbox"/> C	15.1	15.1	15.1	0133	0253	1208	7/100	0.003	
39322	5th floor inside workarea ctr. men's RR	<input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> C	15.1	15.1	15.1	0133	0253	1208	7/100	0.004	
		<input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> C									
		<input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> C									
Relinquished by: <i>[Signature]</i> Date & Time: 02/02/19 8:00 AM			Received by: <i>[Signature]</i> Date & Time: 02-06-19 8:00 AM			Condition Acceptable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Relinquished by: <i>[Signature]</i> Date & Time:			Received by: <i>[Signature]</i> Date & Time:								

* B - Background R - Removal C - Clearance

Appendix C

FACS Daily Field Logs





Forensic Analytical

ENVIRONMENTAL HEALTH CONSULTANTS

Page 1 of 3

Job # PJ 40844

DAILY ONSITE INSPECTION LOG

Client: UC Irvine Date: 02/04/19

Location: Rowland Hall

Technician: Trinidad Rodriguez Signature: [Signature]

Work Area(s): 5th floor women's & men's restroom

Materials Removed: Fire proofing (Spot removal - anchor to ceiling)

Job Scope (check all applicable)

- | | |
|--|--|
| <input type="checkbox"/> Air Sampling | <input type="checkbox"/> Observations |
| <input type="checkbox"/> Baselines/Background | <input type="checkbox"/> Pre-Cleaning |
| <input type="checkbox"/> Set-Up | <input type="checkbox"/> Set-up |
| <input checked="" type="checkbox"/> Removal/Cleaning | <input checked="" type="checkbox"/> Removal/cleaning |
| <input type="checkbox"/> Clearance | <input type="checkbox"/> Final Visual Clearance |
| <input type="checkbox"/> Other (personal) | <input type="checkbox"/> Load-Out/Tear Down |

Work Area Isolation (check all applicable)

Containment (Full) Mini-containment Glove-Bag Other (describe) _____

Differential Pressure Machines

Number of Machines 1 Make & Model 2000 cfm

Visual Signs of Negative Pressure Observed poly pulled inward

Contractor Information

Company (name): Environmental Construction Group

OSHA Competent Person (name): Jose Ramos

Workers (names):

- Carlos Arevalo _____
- Hector Reyes _____
- _____
- _____
- _____
- _____
- _____
- _____

Respiratory Protection (Respirator make & model): 1/2 face respirator

Client: UC IrvineDate: 02/04/19Location: Rowland Hall**Summary of Daily Work Activities / Project Notes**Technician: Trinidad RodriguezSignature: 

2200hrs. On site. Met with Jessie of Omega. We walk to work site.

2215hrs. Work area is in the Rowland bldg. on the 5th floor women's and men's rest room. Full containment is set up; 3 stage decor., 1 DPd inside of work area exhausting to the outside, work signage is posted. Abatement contractor is Environmental Construction Group. They are a crew of 3 including supw. Crew is prepping to enter work area. Jessie anticipates crew will finish clean up and encapsulate after a final visual.

2245hrs. 1 worker donned Tyvek and 1/2 face respirator and enters work area. Others will remain outside.

2305hrs. Jessie set up 3 air samples. 1 outside decor., 1 perimeter and 1 ^(FD) in the DPd exhaust. I have set up my air samples to match his set up. Checked notification and its current. The worker inside Carlos Arrevalo has his certs current. Outside worker has no copies. Supw's resp. test is expired. I strongly advised Jose that Hector should not be on site. ^(FD) Hector's ^{Jose's} argument is that Hector is not allowed inside of work area and keeps Hector on site.

Client: UC IrvineDate: 02/04/19Location: Rowland Hall

Summary of Daily Work Activities / Project Notes

Technician: Trinidad RodriguezSignature: 

2350hrs. Bag out in progress.

0100hrs. Cleaning continues.

0200hrs. Crew decor out for lunch break.

0300hrs. Crew return from lunch, don PPE and re-enter the work area. Carlos will continue with cleaning.

0400hrs. Cleaning continues. An air less is used to assist with cleaning.

0500hrs. Cleaning continues. Waste bags are decorated out.

0550hrs. Jesse and I don PPE and enter work area.

0625hrs. I decor out of work area.

0630hrs. After additional cleanup and retaping of poly to floor Jesse gave the OK to encap. All perimeter/ambient air samples were analyzed on site and resulted in less than 0.01 f/cc.

0645hrs. Area has been encapsulated. Jesse stated that they'll wait 24hrs. before someone from Omega will be out to collect clearance air samples.

0715hrs. Depart site.

Appendix D

FACS Personnel and Laboratory Certifications



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

Trinidad S Rodriguez

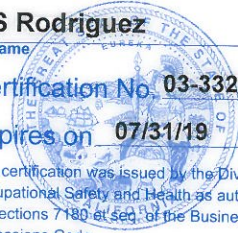
Name



Certification No. **03-3320**

Expires on **07/31/19**

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.



United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101459-1

Forensic Analytical Laboratories, Inc
Rancho Dominguez, CA

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

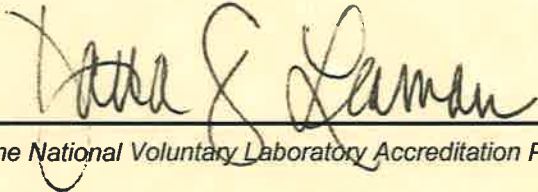
Asbestos Fiber Analysis

*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).*

2018-07-01 through 2019-06-30

Effective Dates




For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Forensic Analytical Laboratories, Inc

2959 Pacific Commerce Drive
Rancho Dominguez, CA 90221

Mr. Steven Takahashi

Phone: 310-294-4365 Fax: 310-764-1136

Email: stakahashi@falaboratories.com

<http://www.falaboratories.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101459-1

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

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

For the National Voluntary Laboratory Accreditation Program

Appendix E

Contractor Personnel Certifications and Documents



Certificate Of Completion

Asbestos Contractor/Supervisor Refresher Course

DOSH #:CA-015-04

Jose Ramos

Last 4 digits of SSN: [REDACTED]
ASR0330180003N15359

David Wallach

Principal Instructor

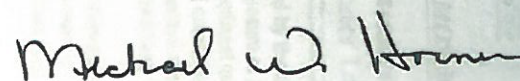
3/30/2018
Course Start Date

3/30/2018
Course End Date

3/30/2018
Exam Date

3/30/2019
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



Michael W. Horner
Training Director

NATEC International, Inc.

National Association of Training and Environmental Consulting

1100 Technology Circle- Suite A, Anaheim, CA 92805 • www.natecintl.com • 800-969-3228



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

BAAQMD: Ph# (415) 749-4762

NATEC International, Inc.

National Association of Training and Environmental Consulting
Anaheim, CA • Oakland, CA • Fresno, CA • Sacramento, CA

Asbestos • Lead • Mold • HAZWOPER

P.O. Box 25205 Anaheim, CA 92825-5205
(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
Jose Ramos

Holds Training Certification For
Asbestos Contractor/Supervisor Refresher Course

(Valid for 12 months)

Training Date 3/30/2018
Certificate No. ASR0330180003N15359

Michael W. Horner
Training Director



ASBESTOS MEDICAL SURVEILLANCE EVALUATION
Written Medical Opinion

Employee: RAMOS, Jose R Date of Birth: [REDACTED]
 Last Four Digits of the Social Security #: *** ** [REDACTED] Date of Exam: 4/17/18
 Employer: Laborers' Local 300 Tel: (213) 385-3550, Ext. 228

Based on information provided by the employer, in accordance with the Title 8 California Code of Regulations 1520, 5208, 8358 and 1544 regarding exposure to Asbestos applicable to this applicant/employee, I certify that in accordance with the regulations cited above, the applicant/employee has been informed of:

1. The results of this medical examination.
2. The health hazards and medical conditions associated with the exposure to asbestos.
3. Any detected medical conditions that could place the applicant/employee at an increased risk of material health impairment.
4. Any detected medical condition(s) related to this exposure that require further evaluation or treatment.
5. The increased health risks associated with smoking and working exposed to asbestos (i.e., cancer).
6. Any recommended limitations upon the applicant/employee continued exposure or use of personal protective equipment.

Based on my evaluation, it is my opinion that this applicant/employee is: (Check all that apply)

- In need of the following additional test(s) or evaluation(s) to determine qualification: _____
- Medically qualified for unrestricted use of the following respiratory protective devices:
 CATEGORY I: Self-Contained; Air-Supplied (Continuous Flow, Demand and Pressure Demand); Canister Mask; Chemical Cartridge and Mechanical Filter with and without Blower.
- Medically qualified for restricted use of respiratory protective devices as indicated below:

CATEGORY II	
Self-Contained	1-2 hours per day
Air-Supplied	
Continuous Flow	Unlimited
Demand	Up to 4 hours/day
Pressure Demand	Up to 4 hours/day
Canister Mask	1-2 hours per day
Chemical Cartridge	1-2 hours per day
Mechanical Filter	1-2 hours per day
Mechanical Filter w/Blower	Unlimited

CATEGORY III	
Self-Contained	Never
Air-Supplied	
Continuous Flow	Emergency only
Demand	Emergency only
Pressure Demand	Emergency only
Canister Mask	Never
Chemical Cartridge	Never
Mechanical Filter	Never
Mechanical Filter w/Blower	Emergency only

- In need of other restrictions not related with respirator use: _____
- In need of Medical Follow-Up Examinations as frequently as every: _____ to include: _____

Other: _____

U.S. HealthWorks Medical Group
1313 West 8th St., Suite 100
Los Angeles, CA 90017
Ph: (213) 401-1970
Fax: (213) 401-1980

COMMENTS:

Monthean Retnarethom, MD
License # A88760
NPI # 1326071762

Examiner: Diana Horn Signature: [Signature] Date: 4/17/18

Regulations restrict examiners from revealing in this written opinion any findings and/or medical conditions unrelated to the occupational exposure and require it to be issued to the employer within 15 days of the evaluation.

RESPIRATOR FIT-TEST AND TRAINING RECORD

Employee's Name: JOSE RAMOS

Social Security No.: [REDACTED]

Project Name: LAWA

Job Number: 184-17

RESPIRATOR FIT TEST SUMMARY

(A separate Fit-Test must be performed for each Negative Pressure Respirator used)

Fit-Test Date: <u>10-04-17</u>	Person Conducting Fit-Test: <u>Aldo Ramos</u>		
Respirator Selected for Test: (circle one)	<input checked="" type="radio"/> Half-Face	<input type="radio"/> Full-Face	<input type="radio"/> PAPR
Manufacturer:	Model:		
<input checked="" type="radio"/> North	<input checked="" type="radio"/> 3100	<input type="radio"/> 6900	<input type="radio"/> 6000 Other: _____
3M	5200	7000	
Survive Air	5400	7700	
Other: _____	6800	Optim Air	
Respirator Size: Small	Medium	Large	Was Rainbow Passage Used: <input checked="" type="radio"/> Yes <input type="radio"/> No
Type of Fit-Test: Qualitative (Odor)	Quantitative (Machine)		
Type of Agent Used: <u>IRRITANT SMOKE</u>	FIT-TEST: <input checked="" type="radio"/> Passed <input type="radio"/> Failed		

Signature of Person Performing Fit-Test: [Signature]

RESPIRATOR TRAINING RECORD

Your signature on this Respirator Training Record will attest to your having received and understood the following respirator training information which both OSHA and ECG require as a part of their Respiratory Protection Program.
The required respirator training consists of the following information:

- An explanation of the problems involved in misusing or inter-changing parts of the respirator.
- A discussion of why engineering controls could not prevent the use of respiratory protection.
- How and why this make the model respirator was chosen for this specific project.
- The limitations of this make and model respirator.
- How to put on this respirator and properly adjust the facepiece and tension straps.
- How to wear this respirator properly.
- What the essential points of the care and maintenance of this respirator are.
- How to recognize and handle emergencies which may occur while using this respirator.
- How to properly inspect, clean and disinfect this respirator.
- How to properly use an Air-Purifying Respirator.
- When a Powered Air-Purifying Respirator is required.
- When a Type-C supplied-air respirator is required.
- The purpose of the medical evaluation.
- How ECG performs a proper respirator fit-test.
- That this fit-test must be performed annually.
- That you will be permitted to leave the work area to wash your face and respirator whenever necessary.
- That filter elements may be changed whenever an increase in breathing resistance is detected.
- That a Powered Air-Purifying Respirator (PAPR) is available to you upon request, as long as it meets the protection factor for hazard involved.

Employee Signature: [Signature]

Date: 10/04/17

South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4182
 Phone: (909) 396-2336
 www.aqmd.gov

Notification Number
541783

Rule 1403 Notification of Procedure 1 2 Asbestos Removal

Please maintain a copy of this Notification at the job site, either electronic or paper.

Project Type

Project Type	Asbestos Removal	Project Urgency	Routine
Completed By	Beatriz Barajas	Phone Number	(562) 294-0114-8112(Ex.)

Contractor Information

Company Name	ENVIRONMENTAL CONSTRUCTION GROUP INC	Address	3271 19TH ST
City	SIGNAL HILL	State	CA
Zip	90755		
CSLB License #	811415	OSHA REG #	820
Supervisor #1	Aldo Ramos	Phone	(661) 349-2464
Supervisor #2	Rigo Flores	Phone	(626) 627-8626
Supervisor #3	Fredy Martinez	Phone	(562) 386-7146

Site Information

Site Name	UCI Fire Life Safety Improvements Phase	Project #	083-17
Site Street #	101	Street Name	ACADEMY STE 210
Cross Street		Site County	Orange County
City	Irvine	State	CA
Zip	92617		
Contact Name	Patrick Hussey	Contact Phone	() (-) ()
Site Owner	Regents of the UC	Owner Address	101 Academy Suite 200
City	Irvine	State	CA
Zip	92697		
Project Start Date	9/14/2018	Project End Date	3/31/2019
Project Work Shift(s)	Day	Building Size in Sq.ft	1234
Number of Floors	5	Building Age (years)	20
Number of Building/Dwelling Units	1	Building Prior Use	University/College
Asbestos Survey	Yes	Asbestos Found	Yes
Asbestos Removed	No	Building to be Demolished	No
Describe Work	Removal of ACM	Describe Work Location	Rowland Hall In Building Number 400

Project Information

Asbestos Information

Amount of Asbestos in each type in Sq.Ft

Acoustic Ceiling	0	Linoleum	0	Insulation	4186	Fire Proofing	3000
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CERTIFICATE OF TRAINING

This certifies that

CARLOS AREVALO

has successfully completed,

ASBESTOS WORKER REFRESHER SPANISH

TSCA TITLE II, and 40 CFR 763 (AHERA)

Start Date: 08/25/2018 End/Examination Date: 08/25/2018

Certification Number

619163206CA-010-120818

DOSH Approval Number

CA-010-12

Expiration Date

08/25/2019



Chuck Poss, Co-Chairman, Management

John Preciado, Co-Chairman, Labor

The Laborers Training School

1385 W. Sierra Madre Ave., Azusa, CA 91702

www.LaborersTrainingSchool.com

(626) 610-1700



ASBESTOS MEDICAL SURVEILLANCE EVALUATION
Written Medical Opinion

AREVALO JR, Carlos

Employee: _____

Date of Birth: _____

Last Four Digits of the Social Security #: _____
Laborers' Local 300

Date of Exam: 8/30/18
(213) 385-3550, Ext. 229

Employer: _____

Tel: _____

Based on information provided by the employer, in accordance with the Title 8 California Code of Regulations 1529, 5208, 8358 and 1544 regarding exposure to Asbestos applicable to this applicant/employee, I certify that in accordance with the regulations cited above, the applicant/employee has been informed of:

1. The results of this medical examination.
2. The health hazards and medical conditions associated with the exposure to asbestos.
3. Any detected medical conditions that could place the applicant/employee at an increased risk of material health impairment.
4. Any detected medical condition(s) related to this exposure that require further evaluation or treatment.
5. The increased health risks associated with smoking and working exposed to asbestos (i.e., cancer).
6. Any recommended limitations upon the applicant/employee continued exposure or use of personal protective equipment.

Based on my evaluation, it is my opinion that this applicant/employee is: (Check all that apply)

In need of the following additional test(s) or evaluation(s) to determine qualification: _____

Medically qualified for unrestricted use of the following respiratory protective devices:

CATEGORY I: Self-Contained; Air-Supplied (Continuous Flow, Demand and Pressure Demand); Canister Mask; Chemical Cartridge and Mechanical Filter with and without Blower.

Medically qualified for restricted use of respiratory protective devices as indicated below:

CATEGORY II	
Self-Contained	1-2 hours per day
Air-Supplied	
Continuous Flow	Unlimited
Demand	Up to 4 hours/day
Pressure Demand	Up to 4 hours/day
Canister Mask	1-2 hours per day
Chemical Cartridge	1-2 hours per day
Mechanical Filter	1-2 hours per day
Mechanical Filter w/Blower	Unlimited

CATEGORY III	
Self-Contained	Never
Air-Supplied	
Continuous Flow	Emergency only
Demand	Emergency only
Pressure Demand	Emergency only
Canister Mask	Never
Chemical Cartridge	Never
Mechanical Filter	Never
Mechanical Filter w/Blower	Emergency only

In need of other restrictions not related with respirator use: _____

In need of Medical Follow-Up Examinations as frequently as every: _____ to include: _____

Other: _____

COMMENTS:

U.S. HealthWorks Medical Group
2171 S. Grove Ave., Suite A
Ontario, CA 91761
PH: (909) 823-4080 FX: (909) 930-0704

Examiner: Wafuana Tomlin Signature: [Signature] Date: 8-30-18

Regulations restrict examiners from revealing in this written opinion any findings and/or medical conditions unrelated to the occupational exposure and require it to be issued to the employer within 15 days of the evaluation.

RESPIRATOR FIT-TEST AND TRAINING RECORD

Employee's Name: Carlos Arevalo

Social Security No.: [REDACTED]


Project Name: Springbok Solar Farm 2 project

Job Number: 149-19

RESPIRATOR FIT TEST SUMMARY

(A separate Fit-Test must be performed for each Negative Pressure Respirator used)


Fit-Test Date: <u>1-3-19</u>		Person Conducting Fit-Test: <u>Aldo Ramos</u>	
Respirator Selected for Test: (circle one)	<input checked="" type="radio"/> Half-Face	<input type="radio"/> Full-Face	<input type="radio"/> PAPR
Manufacturer:	Model:		
North	<input checked="" type="radio"/> 3100	<input type="radio"/> 6900	<input type="radio"/> 6000 Other: _____
3M	<input type="radio"/> 5200	<input type="radio"/> 7000	
Survive Air	<input type="radio"/> 5400	<input type="radio"/> 7700	
Other: _____	<input type="radio"/> 6800	<input type="radio"/> Optim Air	
Respirator Size: Small Medium Large	Was Rainbow Passage Used: <input checked="" type="checkbox"/> Yes No		
Type of Fit-Test: <input type="checkbox"/> Qualitative (Odor)	<input type="checkbox"/> Quantitative (Machine)		
Type of Agent Used: <u>Irritant Smoke</u>	FIT-TEST: <input checked="" type="checkbox"/> Passed <input type="checkbox"/> Failed		

Signature of Person Performing Fit-Test: 

RESPIRATOR TRAINING RECORD

Your signature on this Respirator Training Record will attest to your having received and understood the following respirator training information which both OSHA and ECG require as a part of their Respiratory Protection Program.
The required respirator training consists of the following information:

- An explanation of the problems involved in misusing or inter-changing parts of the respirator.
- A discussion of why engineering controls could not prevent the use of respiratory protection.
- How and why this make the model respirator was chosen for this specific project.
- The limitations of this make and model respirator.
- How to put on this respirator and properly adjust the facepiece and tension straps.
- How to wear this respirator properly.
- What the essential points of the care and maintenance of this respirator are.
- How to recognize and handle emergencies which may occur while using this respirator.
- How to properly inspect, clean and disinfect this respirator.
- How to properly use an Air-Purifying Respirator.
- When a Powered Air-Purifying Respirator is required.
- When a Type-C supplied-air respirator is required.
- The purpose of the medical evaluation.
- How ECG performs a proper respirator fit-test.
- That this fit-test must be performed annually.
- That you will be permitted to leave the work area to wash your face and respirator whenever necessary.
- That filter elements may be changed whenever an increase in breathing resistance is detected.
- That a Powered Air-Purifying Respirator (PAPR) is available to you upon request, as long as it meets the protection factor for hazard involved.

Employee Signature:  Date: 1-3-19

Appendix F

Contractor Regulatory Agency Notifications



FAKED
01/04/19



Temporary Worksite Notification for Asbestos-Related Work

Company/Employer Name: ENVIRONMENTAL CONSTRUCTION GROUP, INC.

Headquarters Address: 3271 19th STREET SIGNAL HILL, CA 90755

Contractors State License Board License Number: 811415

DOSH-ACRU (Cal/OSHA) Asbestos Registration Number: 820

And/or "Report of Use" Registry number: _____

Address of Temporary Worksite and Precise Location: UCI FIRE LINE SAFETY IMPROVEMENTS
101 ACADEMY STE 210 IRVINE, CA 92617 - Bldg. 400 Rowland Hall

Nearest intersection: Bison

Type of Business: UNIVERSITY

*Name of Certified Supervisor: JOSE RAMOS & DAVID LOPEZ

*Name of Qualified person in charge of air
monitoring,

laboratory work, and respirators: JOSE RAMOS & DAVID LOPEZ

*Name of Certified of Consultant: Navid Salari CAC#94-1597

Projected job starting date: 12/04/2018 projected completion date: 03/31/2019

Describe type, scope and work practices of job: REMOVAL OF ACM IN VARIOUS LOCATION OF BUILDING # 400
WET REMOVAL WORK PRACTICES, CRITICAL BARRIERS, NEGATIVE AIR, HEPA FILTERED RESPIRATORS, HEPA VACCUUMS
AND AIR PURIFIER

Evaluation of potential for exposure: With the required respirators worker exposure levels will be below
the Cal/Osha Pel of 0.1 f/cc

Estimated number of employees on this job: 5-10

Prior to the start of each job or phase of asbestos-related work requiring the employer or contractor to be registered, Section 341.9 of the California Code of Regulations (8 CCR 341.9) requires notifications to the nearest DOSH District Office. Do not send this notification to DOSH Headquarters or to DOSH Consultation. This will not satisfy the notification requirement and could result in citation.

Note: Any change in the information provided to the district office by the written notice shall be reported to the district office within 24 hours of such change.



environmentalconstruction
GROUP, INC.

FACSIMILE TRANSMITTAL SHEET

TO: CAL/OSHA Santa Ana District Office	FROM: Beatriz A. Barajas Contract Administrator
COMPANY: CAL/OSHA	DATE: 01/02/2019
FAX NUMBER: 714-558-2035	TOTAL NO. OF PAGES INCLUDING COVER: 2
PHONE NUMBER: 714-558-4451	SENDER'S REFERENCE NUMBER:
RE: Temporary Worksite Notification for Asbestos	YOUR REFERENCE NUMBER:

- URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

NOTES/COMMENTS:

Project No. 083-17 – UC Irvine Fire Line Safety Project - Revising end date.

South Coast Air Quality Management District21865 Copley Drive, Diamond Bar, CA 91765-4182
Phone: (909) 396-2336
www.aqmd.govNotification Number
541783**Rule 1403 Notification of Procedure 1 2 Asbestos Removal**

Please maintain a copy of this Notification at the job site, either electronic or paper.

Project Type

Project Type	Asbestos Removal	Project Urgency	Routine
Completed By	Beatriz Barajas	Phone Number	(562) 294-0114-8112(Ex.)

Contractor Information

Company Name	ENVIRONMENTAL CONSTRUCTION GROUP INC	Address	3271 19TH ST
City	SIGNAL HILL	State	CA
Zip	90755		
CSLB License #	811415	OSHA REG #	820
Supervisor #1	Aldo Ramos	Phone	(661) 349-2464
Supervisor #2	Rigo Flores	Phone	(626) 627-8626
Supervisor #3	Fredy Martinez	Phone	(562) 386-7146

Site Information

Site Name	UCI Fire Life Safety Improvements Phase	Project #	083-17
Site Street #	101	Street Name	ACADEMY STE 210
Cross Street		Site County	Orange County
City	Irvine	State	CA
Zip	92617		
Contact Name	Patrick Hussey	Contact Phone	()(-)(
Site Owner	Regents of the UC	Owner Address	101 Academy Suite 200
City	Irvine	State	CA
Zip	92697		
Project Start Date	9/14/2018	Project End Date	3/31/2019
Project Work Shift(s)	Day	Building Size In Sq.ft	1234
Number of Floors	5	Building Age (years)	20
Number of Building/Dwelling Units	1	Building Prior Use	University/College
Asbestos Survey	Yes	Asbestos Found	Yes
Asbestos Removed	No	Building to be Demolished	No
Describe Work	Removal of ACM	Describe Work Location	Rowland Hall In Building Number 400

Project Information**Asbestos Information**

Amount of Asbestos in each type In Sq.Ft

Acoustic Ceiling	0	Linoleum	0	Insulation	4186	Fire Proofing	3000
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Ducting	0	Dry Wall	0	Mastic (Non-friable)	0	Floor Tiles (Non-friable)	0
Transite	0	Roofing	0	Stucco	0	Plaster	0
Other (friable)	0	Coal Tar Wrap	0	Mastic (Friable)	0	Floor Tile (Friable)	0
Other (non-friable)	0						

Asbestos Amount to be Removed in Sq.Ft

FRIABLE	7186
CLASS I	0
CLASS II	0
Total	7186

Asbestos Removal From	Surfaces , Pipes , Components	Control Procedures	1 , 2
Asbestos Detection Procedure(s)	Survey , Bulk Sampling , Inspection , PLM		

Waste Information

Waste Transporter	BDC SPECIAL WASTE SERVICES		
Address	1211 WEST GLADSTONE AVENUE	City	AZUSA
State	CA	Zip	91702
Landfill	Azusa Land Reclamation		
Address	1211 W Gladstone St	City	Azusa
State	CA	Zip	91702

Fee Payment

Total Amount of Asbestos to be Removed in sq.ft	7186
Tracking Number	3383905
Project Size Fee	0
Additional Fee	62.92
Total Fee	\$ 62.92
Payment Made	\$ 62.92
Balance Due	\$ 0

By clicking the Sign & Submit button, I certify that an individual trained in the provisions of SCAQMD Rule 1403 and the Asbestos NESHAP (CFR Title 40, Part 61, Subpart M) will be onsite during the demolition or renovation and evidence that the required training has been accomplished by this person will be available for inspection during normal business hours. In addition, I certify that all of the information contained herein and information submitted with this Notification is true and correct.

Appendix G

Abatement and Air Sample Location Drawing



Right People
Right Perspective
Right Now

www.forensicanalytical.com