

ADDENDUM G

October 7, 2019

BIDDING AND CONTRACT DOCUMENTS

FOR

Various Elevator Modernizations

PROJECT NO. 112008

CONTRACT NO. 112008-LF-2019-129



The following changes, additions, or deletions shall be made to the following documents as indicated for this Project; and all other terms and conditions shall remain the same. Each bidder is responsible for transmitting this information to all affected subcontractors and suppliers before the Bid Deadline.

1. INFORMATION AVAILABLE TO BIDDERS

Add the Entomology Asbestos and Lead Survey to Information Available to Bidders.

Add the PE/ Athletics Asbestos and Lead Survey to Information Available to Bidders.

Add the Spieth Hall North Asbestos and Lead Survey to Information Available to Bidders

Add the Spieth Hall South Asbestos and Lead Survey to Information Available to Bidders.

Add the Watkins Asbestos and Lead Survey to Information Available to Bidders.

Add the Webber Asbestos and Lead Survey to Information Available to Bidders.

2. SPECIFICATION TABLE OF CONTENTS

Delete existing Specification Table of Contents and replace with the one issued in this Addendum.

3. SPECIFICATIONS

Add Specification 02 8216, Hazardous Soil, Asbestos, Lead Abatement of Non-Friable Floor Tile, to the Specification Table of Contents.

END OF ADDENDUM

INFORMATION AVAILABLE TO BIDDERS

The following information is made available for the convenience of bidders and is not a part of the Contract. The information is provided subject to the provisions of Article 3 of the General Conditions.

1. The University of California has contracts for materials, equipment and/or services with the suppliers listed on the Office of the President Procurement Services website at:

<http://www.ucop.edu/procurement-services/for-suppliers/ucop-designated-construction-agreements.html>

General Contractors or others submitting bids for University construction projects may enter into agreements with these suppliers that utilize the pricing and terms contained in the University-supplier agreements. The university does not represent or warrant that materials/equipment/services of these suppliers meet the requirements of the University's construction contracts.

Use of such suppliers shall not relieve Contractor from its obligation to meet all contractual requirements in any contracts with the University. The university will not be a party to any agreements with such suppliers and accepts no performance obligations or liability with respect to such agreements.

2. Reports:

Entomology Asbestos and Lead Survey

PE/ Athletics Asbestos and Lead Survey

Spieth Hall North Asbestos and Lead Survey

Spieth Hall South Asbestos and Lead Survey

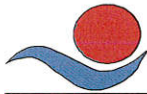
Watkins Asbestos and Lead Survey

Webber Asbestos and Lead Survey

3. Record Documents and As-Builts:

None

END OF INFORMATION AVAILABLE TO BIDDERS



AMBIENT ENVIRONMENTAL, INC.

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jp@ambientenv.com

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July 31, 2019

University of California, Riverside

Planning Design & Construction

1223 University Avenue Suite 240

Riverside, California 92507

Attn: Mr. Fernando Nunez-Project Manager

Re: Asbestos and Lead Survey for the project located at: Entomology Research Museum (Elevator Upgrade Project) University of Riverside, California.
PO #SC108046-CH2 Project #112008

Dear Mr. Nunez,

Ambient Environmental Inc. performed an asbestos building material for the above referenced location. Ambient Environmental Inc. on site field personnel obtained asbestos building material bulk samples and X-Ray Fluorescence (XRF) reading from painted building component that would be impacted during the elevator upgrade project located at the above referenced location. The survey was conducted on July 21, 2019 by Mr. John L. Payne a California Certified Asbestos Consultant #93-1226 a United States Environmental Protection Agency (USEPA) certified asbestos building inspector and a CDPHS #25387 Certified Lead Sampling Technician.

Asbestos Survey Procedures

The purpose of the asbestos survey was to locate and identify suspect building materials that will be impacted during the elevator upgrade project for detectable levels of asbestos. Once a visual inspection was performed, representative bulk samples were obtained from each homogeneous building material that would be impacted during the upgrade activity. Homogeneous building materials are defined as building materials that are uniform in texture, construction or application date and general appearance. Also, each homogeneous building material was divided into three main categories: Surfacing Materials, Thermal System Insulation and Miscellaneous Materials. The sample location, building material type, friability and condition of building materials were also documented. If building materials were installed at different times or if there is any reason to suspect that the building material might be different through appearance, Ambient separated each building material into a new homogeneous sampling area.

Asbestos bulk samples were obtained in accordance with USEPA established guidelines document, “Guidance for Controlling Asbestos Containing Materials in Buildings” (USEPA 560/5-85-024, 1985) and USEPA 40 CFR Part 763.86 “Asbestos-Containing Materials in Schools, Final Rule” (AHERA). Each bulk sample was analyzed of asbestos content by Polarized Light Microscopy (PLM) EPA Method 600/R-93-116 Visual Area Estimation. Building materials not identified in this report may be present within hidden or concealed areas of the property or outside the scope of services.

Friable and non-friable building materials assessments were performed for each homogeneous building material by the use of hand pressure as defined in USEPA 40 CFR Part 763 “Asbestos-Containing Materials in Schools, Final Rule” (AHERA). Friable material is defined as any building material that by the means of hand pressure can be crumbled into a powder.

When each homogeneous sampling area was identified, a random sampling grid was utilized for sample collection of each building material as described in the EPA guidance document, Asbestos in Building: Simplified Sampling Scheme for Friable Surfacing Materials (EPA 560/5-85-030a, October 1985 Random Number Diagrams). The minimum number of samples was obtained for each identified friable homogeneous area based upon the overall square footage of material in table-1. The physical condition, friability, accessibility, activity and damage of building materials were also assessed and documented. The following procedures were performed during the survey

- Perform a visual assessment to identify the location and type of friable/non-friable building materials.
- Obtain representative bulk samples from suspect building materials per the below table-1.
- Samples were analyzed by an independent accredited laboratory for the presence of asbestos by PLM analysis USEPA 40 CFR Part 763.87.
- Present all survey results in a written report including recommendations, locations and laboratory results. All findings, recommendations and analytical data presented in this report are based on the information (assessment and sampling data) obtained by our inspector during the survey.

Sample Table-1

Size of Sampling Area	Number of Samples Collected
Less Than 1,000 sq. ft.	3 – Samples
Between 1,000 & 5,000 sq. ft.	5 – Samples
Greater than 5,000 sq. Ft.	*7 – Samples

***The recommended number of samples per AHERA is nine for areas greater than 5,000 square feet, or at least one additional sample per additional 1,000 square feet for any friable building material.**

All bulk samples were submitted to Forensic Analytical located at: 2959 Pacific Commerce Drive Rancho Dominguez, California (310) 763-2374. Forensic Analytical is accredited by the American Industrial Hygiene Association (AIHA), National Voluntary Laboratory Accreditation Program (NVLAP #101459-0), National Institute of Standards and Testing (NIST), and is a successful participant in the Proficiency Analytical Testing Program (PAT). Each sample analyzed by Polarized Light Microscopy (PLM) method in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples EPA - 600/M4-82-020" dated December 1982 and adopted by the National Voluntary Laboratory Accreditation Program (NVLAP) Title 15, part 7 of the Code of Federal Register as affiliated with the National Institute for Standards and Testing (NIST).

Current Federal USEPA Regulations define a material to be asbestos containing at 1% by weight. Current State of California regulations define a material to be asbestos containing at 0.1% by weight. For this reason, any sample reported as containing a trace amount of asbestos is assumed to contain asbestos. The following is the laboratory result:

Material	Sample Number	Asbestos Content	Square Footage	Location of Material	Friable	Damage
Drywall and Joint Compound	01	Non Detected	N/A	Elevator Room	No	No
	02					
	03					
Exterior Stucco	04 05 06	Non Detected	N/A	Throughout Exterior Walls	No	No

Lead Survey Procedures

The lead survey was performed to identify painted building components for disposal during the construction activity. Once the suspect painted building components were identified, each painted building component was categorized into homogeneous sample areas. Homogeneous sample areas are defined as areas in which suspect painted building components are uniform in color, texture, application date and general appearance. Representative X-Ray Fluorescence (XRF) lead readings were obtained from each homogeneous sample area.

Detection Limit Guidelines for The Department of Health Services is 5000 parts per million (PPM) or 1.0 mg/cm² by the use of a hand held X-Ray Fluorescence (XRF) lead paint analyzer, however CALOSHA requires that all workers be properly protected when working with any painted building component containing levels of lead above 600 ppm or

0.06 mg/cm² in accordance with Title 8 CCR Section 1532.1. The following highlighted building components indicate lead containing painted surfaces above 1.0 mg/cm²

Location	Sample Number	Component	Substrate	Pbl mg/cm ²	Condition
Calibration	---	---	---	1.0	---
Calibration	---	---	---	1.0	---
Calibration	---	---	---	1.0	---
Elevator Room	1	Wall	Drywall	0.0	N/A
Elevator Room	2	Wall	Drywall	0.0	N/A
Exterior	3	Wall	Stucco	0.0	N/A
Exterior	4	Wall	Stucco	0.0	N/A

Any lead containing building components highlighted above is designed to aid the building owner, architect, construction manager, general contractors of potential lead containing building components within the scope of work. Other lead containing building components may exist at the property within concealed areas of the property or outside the scope of work. All conditions of paints identified in the above table were identified during the time of the survey. All removal work should proceed under all requirements pertaining to lead containing paint removal activities.

Since the building materials sampled during this survey could potentially contain asbestos and/or lead with limited access to the scope of work no intrusive sampling was performed in areas like (roofing underlay, walls/ceiling cavities, under flooring, underground, pools/spa) or any other areas that would cause damage to building materials potentially containing asbestos or lead.

Due to limited access of the property, other asbestos and/or lead containing building materials may exist at the property and/or outside the scope of work. If other building materials that are not identified in this report are discovered, all work should (stop) and these building materials should be sampled prior to any related activities. Also, if any changes to any regulation governing asbestos and or lead occurred after the date of this report, Ambient cannot be responsible for this changes.


Once the asbestos and/or lead containing building materials identified in this report have been remove and with full access to the building interior and exterior, Ambient recommends an intrusive survey be performed to identify any remaining asbestos and/or lead containing building materials within the property.

Any recommendations in this report are professional opinions based solely on visual observations and analytical analyses, as described in this report. Opinions and/or recommendations presented herein apply to site conditions existing at the time of our investigation, they cannot necessarily apply to site changes of which this office is not aware of and/or has not had the opportunity to evaluate.

Please contact the undersigned with your questions and/or comments regarding the sample result and/or location of material.

Sincerely,

Signed for Ambient Environmental, Inc. by



John L. Payne
CAC #93-1226

Attachments

Appendix - A

Chain of Custody and Bulk Sample Log

Appendix - B

Laboratory Certification of Analysis

Appendix - C

Certification

APPENDIX A

**CHAIN OF CUSTODY
AND BULK SAMPLE LOG**



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ASBESTOS BULK SAMPLE LOG Page 1 of 1

Client Name: UCL R P&D

Project Location: En Tomology Research Museum

Date: 7-21-19 Field Technician: John Ryan

Project Number: 19-1489 Priority: ASAP 24 HR 3-5 Days

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
01	Receptor Room	Ductwork at Duct Comp	
02	↓ f	↓ f	
03	↓ f	↓ f	
04	Receptor Room	Receptor Space	
05	↓ f	↓ f	
06	↓ f	↓ f	

Chain of Custody Analytical Method: PLM: > TEM: Other:

Sampled By		Date	Time
Relinquished By		Date	Time
Received By	<u>[Signature]</u>	Date <u>07-26-19</u>	Time <u>9:35 AM</u>
Relinquished By		Date	Time
Received By		Date	Time

APPENDIX B

**LABORATORY
CERTIFICATES OF ANALYSIS**



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: 101459-1

Ambient Environmental Inc
John Payne
400 N. Princeland Crt.
Ste. 3
Corona, CA 92879

Client ID: 5697
Report Number: B290665
Date Received: 07/26/19
Date Analyzed: 07/28/19
Date Printed: 07/29/19
First Reported: 07/29/19

Job ID/Site: 19-1489; Entomology Research Museum

FALI Job ID: 5697
Total Samples Submitted: 6
Total Samples Analyzed: 6

Date(s) Collected: 07/21/2019

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	51251702						
Layer: White Drywall			ND				
Layer: Drywall Tape			ND				
Layer: White Skimcoat/Joint Compounds			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (2 %)							
02	51251703						
Layer: White Drywall			ND				
Layer: Drywall Tape			ND				
Layer: White Skimcoat/Joint Compounds			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (2 %)							
03	51251704						
Layer: White Drywall			ND				
Layer: Drywall Tape			ND				
Layer: White Skimcoat/Joint Compounds			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (2 %)							
04	51251705						
Layer: Grey Cementitious Material			ND				
Layer: White Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
05	51251706						
Layer: Grey Cementitious Material			ND				
Layer: White Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Report Number: B290665

Date Printed: 07/29/19

Client Name: Ambient Environmental Inc

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
06	51251707						
		Layer: Grey Cementitious Material					ND
		Layer: White Cementitious Material					ND
		Layer: Paint					ND
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (Trace)					



Tiffani Ludd, Laboratory Supervisor, Rancho Dominguez Laboratory

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

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

APPENDIX C
CERTIFICATION

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Certification & Training Unit
2424 Arden Way, Suite 495
Sacramento, CA 95825-2417
(916) 574-2993 Office (916) 483-0572 Fax
<http://www.dir.ca.gov/dosh/asbestos.html> acru@dir.ca.gov



310191226C 80 87

Ambient Environmental, Inc.
John Lee Payne
400 Princland Court, Suite 3
Corona CA 92879

May 16, 2019

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email with any changes in your contact/ mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File

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

John Lee Payne
Name

Certification No. 93-1226

Expires on 06/24/20

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 Department of Public Health
Lead-Related
Construction
Certificate

Certificate
Type

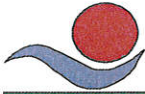
Expiration
Date

Sampling Technician 10/23/2019



John L. Payne

ID #: 25387



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jp@ambientenv.com
www.ambientenvinc.com

July 31, 2019

University of California, Riverside
Planning Design & Construction
1223 University Avenue Suite 240
Riverside, California 92507
Attn: Mr. Fernando Nunez-Project Manager

Re: Asbestos and Lead Survey for the project located at: PE Building (Elevator Upgrade Project) University of Riverside, California.

Dear Mr. Nunez,

Ambient Environmental Inc. performed an asbestos building material for the above referenced locations. Ambient Environmental Inc. on site field personnel obtained asbestos building material bulk samples and X-Ray Fluorescence (XRF) reading from painted building component that would be impacted during the elevator upgrade project located at the above referenced location. The survey was conducted on July 21, 2019 by Mr. John L. Payne a California Certified Asbestos Consultant #93-1226 a United States Environmental Protection Agency (USEPA) certified asbestos building inspector and a CDPHS #25387 Certified Lead Sampling Technician.

Asbestos Survey Procedures

The purpose of the asbestos survey was to locate and identify suspect building materials that will be impacted during the elevator upgrade project for detectable levels of asbestos. Once a visual inspection was performed, representative bulk samples were obtained from each homogeneous building material that would be impacted during the upgrade activity. Homogeneous building materials are defined as building materials that are uniform in texture, construction or application date and general appearance. Also, each homogeneous building material was divided into three main categories: Surfacing Materials, Thermal System Insulation and Miscellaneous Materials. The sample location, building material type, friability and condition of building materials were also documented. If building materials were installed at different times or if there is any reason to suspect that the building material might be different through appearance, Ambient separated each building material into a new homogeneous sampling area.

Asbestos bulk samples were obtained in accordance with USEPA established guidelines document, “Guidance for Controlling Asbestos Containing Materials in Buildings” (USEPA 560/5-85-024, 1985) and USEPA 40 CFR Part 763.86 “Asbestos-Containing Materials in Schools, Final Rule” (AHERA). Each bulk sample was analyzed of asbestos content by Polarized Light Microscopy (PLM) EPA Method 600/R-93-116 Visual Area Estimation. Building materials not identified in this report may be present within hidden or concealed areas of the property or outside the scope of services.

Friable and non-friable building materials assessments were performed for each homogeneous building material by the use of hand pressure as defined in USEPA 40 CFR Part 763 “Asbestos-Containing Materials in Schools, Final Rule” (AHERA). Friable material is defined as any building material that by the means of hand pressure can be crumbled into a powder.

When each homogeneous sampling area was identified, a random sampling grid was utilized for sample collection of each building material as described in the EPA guidance document, Asbestos in Building: Simplified Sampling Scheme for Friable Surfacing Materials (EPA 560/5-85-030a, October 1985 Random Number Diagrams). The minimum number of samples was obtained for each identified friable homogeneous area based upon the overall square footage of material in table-1. The physical condition, friability, accessibility, activity and damage of building materials were also assessed and documented. The following procedures were performed during the survey

- Perform a visual assessment to identify the location and type of friable/non-friable building materials.
- Obtain representative bulk samples from suspect building materials per the below table-1.
- Samples were analyzed by an independent accredited laboratory for the presence of asbestos by PLM analysis USEPA 40 CFR Part 763.87.
- Present all survey results in a written report including recommendations, locations and laboratory results. All findings, recommendations and analytical data presented in this report are based on the information (assessment and sampling data) obtained by our inspector during the survey.

Sample Table-1

Size of Sampling Area	Number of Samples Collected
Less Than 1,000 sq. ft.	3 – Samples
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***The recommended number of samples per AHERA is nine for areas greater than 5,000 square feet, or at least one additional sample per additional 1,000 square feet for any friable building material.**

All bulk samples were submitted to Forensic Analytical located at: 2959 Pacific Commerce Drive Rancho Dominguez, California (310) 763-2374. Forensic Analytical is accredited by the American Industrial Hygiene Association (AIHA), National Voluntary Laboratory Accreditation Program (NVLAP #101459-0), National Institute of Standards and Testing (NIST), and is a successful participant in the Proficiency Analytical Testing Program (PAT). Each sample analyzed by Polarized Light Microscopy (PLM) method in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples EPA - 600/M4-82-020" dated December 1982 and adopted by the National Voluntary Laboratory Accreditation Program (NVLAP) Title 15, part 7 of the Code of Federal Register as affiliated with the National Institute for Standards and Testing (NIST).

Current Federal USEPA Regulations define a material to be asbestos containing at 1% by weight. Current State of California regulations define a material to be asbestos containing at 0.1% by weight. For this reason, any sample reported as containing a trace amount of asbestos is assumed to contain asbestos. The following is the laboratory result:

Material	Sample Number	Asbestos Content	Square Footage	Location of Material	Friable	Damage
Interior Plaster	01	Non	N/A	Throughout Interior Walls and Ceiling	No	No
	02	Detected				
	03					
Drywall and Joint Compound	04	Non	N/A	Equipment Room Walls and Ceiling	No	No
	05	Detected				
	06					

Lead Survey Procedures

The lead survey was performed to identify painted building components for disposal during the construction activity. Once the suspect painted building components were identified, each painted building component was categorized into homogeneous sample areas. Homogeneous sample areas are defined as areas in which suspect painted building components are uniform in color, texture, application date and general appearance. Representative X-Ray Fluorescence (XRF) lead readings were obtained from each homogeneous sample area.

Detection Limit Guidelines for The Department of Health Services is 5000 parts per million (PPM) or 1.0 mg/cm² by the use of a hand held X-Ray Fluorescence (XRF) lead paint analyzer, however CALOSHA requires that all workers be properly protected when working with any painted building component containing levels of lead above 600 ppm or

0.06 mg/cm² in accordance with Title 8 CCR Section 1532.1. The following highlighted building components indicate lead containing painted surfaces above 1.0 mg/cm²

Location	Sample Number	Component	Substrate	Pbl mg/cm ²	Condition
Calibration	---	---	---	1.0	---
Calibration	---	---	---	1.0	---
Calibration	---	---	---	1.0	---
Hallway	1	Wall	Plaster	0.0	N/A
Hallway	2	Wall	Plaster	0.0	N/A
Equipment Room	3	Wall	Drywall	0.0	N/A
Equipment Room	4	Wall	Drywall	0.0	N/A

Any lead containing building components highlighted above is designed to aid the building owner, architect, construction manager, general contractors of potential lead containing building components within the scope of work. Other lead containing building components may exist at the property within concealed areas of the property or outside the scope of work. All conditions of paints identified in the above table were identified during the time of the survey. All removal work should proceed under all requirements pertaining to lead containing paint removal activities.

Since the building materials sampled during this survey could potentially contain asbestos and/or lead with limited access to the scope of work no intrusive sampling was performed in areas like (roofing underlay, walls/ceiling cavities, under flooring, underground, pools/spa) or any other areas that would cause damage to building materials potentially containing asbestos or lead.

Due to limited access of the property, other asbestos and/or lead containing building materials may exist at the property and/or outside the scope of work. If other building materials that are not identified in this report are discovered, all work should (stop) and these building materials should be sampled prior to any related activities. Also, if any changes to any regulation governing asbestos and or lead occurred after the date of this report, Ambient cannot be responsible for this changes.

Once the asbestos and/or lead containing building materials identified in this report have been remove and with full access to the building interior and exterior, Ambient recommends an intrusive survey be performed to identify any remaining asbestos and/or lead containing building materials within the property.

Any recommendations in this report are professional opinions based solely on visual observations and analytical analyses, as described in this report. Opinions and/or recommendations presented herein apply to site conditions existing at the time of our investigation, they cannot necessarily apply to site changes of which this office is not aware of and/or has not had the opportunity to evaluate.

Please contact the undersigned with your questions and/or comments regarding the sample result and/or location of material.

Sincerely,
Signed for Ambient Environmental, Inc. by

John L. Payne
CAC #93-1226

Attachments
Appendix - A
Appendix - B
Appendix - C

Chain of Custody and Bulk Sample Log
Laboratory Certification of Analysis
Certification

APPENDIX A

**CHAIN OF CUSTODY
AND BULK SAMPLE LOG**



AMBIENT ENVIRONMENTAL, INC.
 Consulting/Engineering/Remediation

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ASBESTOS BULK SAMPLE LOG Page 6 of

Client Name: UCA P:O
 Project Location: PR Building UC Riverside
 Date: 7-21-19 Field Technician: Donal Ryan
 Project Number: 19-1486 Priority: ASAP 24 HR > 3-5 Days

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
01	FELICIA WAYS	TRIM PLATE	
02	↓ ↓	↓ ↓	
03	↓ ↓	↓ ↓	
04	Equip Room FELICIA	Drywall TERRAZZO	
05	↓ ↓	↓ ↓	
06	↓ ↓	↓ ↓	

Chain of Custody Analytical Method: PLM: TEM: Other:

Sampled By		Date	Time
Relinquished By		Date	Time
Received By	<u> J. Carls FE </u>	Date <u> 07-26-19 </u>	Time <u> 9:35am </u>
Relinquished By		Date	Time
Received By		Date	Time

APPENDIX B

**LABORATORY
CERTIFICATES OF ANALYSIS**



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: 101459-1

Ambient Environmental Inc
John Payne
400 N. Princeland Ct.
Ste. 3
Corona, CA 92879

Client ID: 5697
Report Number: B290657
Date Received: 07/26/19
Date Analyzed: 07/28/19
Date Printed: 07/29/19
First Reported: 07/29/19

Job ID/Site: 19-1486; PE Building, UC Riverside

FALI Job ID: 5697
Total Samples Submitted: 6
Total Samples Analyzed: 6

Date(s) Collected: 07/21/2019

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	51251681						
Layer: Beige Plaster			ND				
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
02	51251682						
Layer: Beige Plaster			ND				
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
03	51251683						
Layer: Beige Plaster			ND				
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
04	51251684						
Layer: White Drywall			ND				
Layer: White Skimcoat/Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (3 %)							
05	51251685						
Layer: White Drywall			ND				
Layer: White Skimcoat/Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (3 %)							

Report Number: B290657

Date Printed: 07/29/19

Client Name: Ambient Environmental Inc

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
06	51251686						
		Layer: White Drywall					ND
		Layer: White Skimcoat/Joint Compound					ND
		Layer: Paint					ND
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (3 %)							



Tiffani Ludd, Laboratory Supervisor, Rancho Dominguez Laboratory

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

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

APPENDIX C
CERTIFICATION

DEPARTMENT OF INDUSTRIAL RELATIONS
 Division of Occupational Safety and Health
 Asbestos Certification & Training Unit
 2424 Arden Way, Suite 495
 Sacramento, CA 95825-2417
 (916) 574-2993 Office (916) 483-0572 Fax
<http://www.dir.ca.gov/dosh/asbestos.html> acru@dir.ca.gov



310191226C 80 87

Ambient Environmental, Inc.
 John Lee Payne
 400 Princeland Court, Suite 3
 Corona CA 92879

May 16, 2019

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email with any changes in your contact/ mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
 Senior Safety Engineer

Attachment: Certification Card

cc: File

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



John Lee Payne
 Name

Certification No. **93-1226**

Expires on **06/24/20**

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.



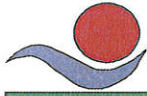
Renewal – Card Attached (Revised 01/10/2019)

State of California Department of Public Health
Lead-Related
Construction
Certificate



<u>Certificate Type</u>	<u>Expiration Date</u>
Sampling Technician	10/23/2019

John L. Payne ID #: 25387



AMBIENT ENVIRONMENTAL, INC.

Consulting/Engineering/Remediation
400 North Princland Court Suite-3
Corona, California 92879
951 272-4730 *Phone*
951 272-4731 *Facsimile*
jp@ambientenv.com
www.ambientenvinc.com

July 31, 2019

University of California, Riverside
Planning Design & Construction
1223 University Avenue Suite 240
Riverside, California 92507
Attn: Mr. Fernando Nunez-Project Manager

Re: Asbestos and Lead Survey for the project located at: Spieth Hall North (Elevator Upgrade Project) University of Riverside, California.

Dear Mr. Nunez,

Ambient Environmental Inc. performed an asbestos building material for the above referenced locations. Ambient Environmental Inc. on site field personnel obtained asbestos building material bulk samples and X-Ray Fluorescence (XRF) reading from painted building component that would be impacted during the elevator upgrade project located at the above referenced location. The survey was conducted on July 21, 2019 by Mr. John L. Payne a California Certified Asbestos Consultant #93-1226 a United States Environmental Protection Agency (USEPA) certified asbestos building inspector and a CDPHS #25387 Certified Lead Sampling Technician.

Asbestos Survey Procedures

The purpose of the asbestos survey was to locate and identify suspect building materials that will be impacted during the elevator upgrade project for detectable levels of asbestos. Once a visual inspection was performed, representative bulk samples were obtained from each homogeneous building material that would be impacted during the upgrade activity. Homogeneous building materials are defined as building materials that are uniform in texture, construction or application date and general appearance. Also, each homogeneous building material was divided into three main categories: Surfacing Materials, Thermal System Insulation and Miscellaneous Materials. The sample location, building material type, friability and condition of building materials were also documented. If building materials were installed at different times or if there is any reason to suspect that the building material might be different through appearance, Ambient separated each building material into a new homogeneous sampling area.

Asbestos bulk samples were obtained in accordance with USEPA established guidelines document, “Guidance for Controlling Asbestos Containing Materials in Buildings” (USEPA 560/5-85-024, 1985) and USEPA 40 CFR Part 763.86 “Asbestos-Containing Materials in Schools, Final Rule” (AHERA). Each bulk sample was analyzed of asbestos content by Polarized Light Microscopy (PLM) EPA Method 600/R-93-116 Visual Area Estimation. Building materials not identified in this report may be present within hidden or concealed areas of the property or outside the scope of services.

Friable and non-friable building materials assessments were performed for each homogeneous building material by the use of hand pressure as defined in USEPA 40 CFR Part 763 “Asbestos-Containing Materials in Schools, Final Rule” (AHERA). Friable material is defined as any building material that by the means of hand pressure can be crumbled into a powder.

When each homogeneous sampling area was identified, a random sampling grid was utilized for sample collection of each building material as described in the EPA guidance document, Asbestos in Building: Simplified Sampling Scheme for Friable Surfacing Materials (EPA 560/5-85-030a, October 1985 Random Number Diagrams). The minimum number of samples was obtained for each identified friable homogeneous area based upon the overall square footage of material in table-1. The physical condition, friability, accessibility, activity and damage of building materials were also assessed and documented. The following procedures were performed during the survey

- Perform a visual assessment to identify the location and type of friable/non-friable building materials.
- Obtain representative bulk samples from suspect building materials per the below table-1.
- Samples were analyzed by an independent accredited laboratory for the presence of asbestos by PLM analysis USEPA 40 CFR Part 763.87.
- Present all survey results in a written report including recommendations, locations and laboratory results. All findings, recommendations and analytical data presented in this report are based on the information (assessment and sampling data) obtained by our inspector during the survey.

Sample Table-1

Size of Sampling Area	Number of Samples Collected
Less Than 1,000 sq. ft.	3 – Samples
Between 1,000 & 5,000 sq. ft.	5 – Samples
Greater than 5,000 sq. Ft.	*7 – Samples

***The recommended number of samples per AHERA is nine for areas greater than 5,000 square feet, or at least one additional sample per additional 1,000 square feet for any friable building material.**

All bulk samples were submitted to Forensic Analytical located at: 2959 Pacific Commerce Drive Rancho Dominguez, California (310) 763-2374. Forensic Analytical is accredited by the American Industrial Hygiene Association (AIHA), National Voluntary Laboratory Accreditation Program (NVLAP #101459-0), National Institute of Standards and Testing (NIST), and is a successful participant in the Proficiency Analytical Testing Program (PAT). Each sample analyzed by Polarized Light Microscopy (PLM) method in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples EPA - 600/M4-82-020" dated December 1982 and adopted by the National Voluntary Laboratory Accreditation Program (NVLAP) Title 15, part 7 of the Code of Federal Register as affiliated with the National Institute for Standards and Testing (NIST).

Current Federal USEPA Regulations define a material to be asbestos containing at 1% by weight. Current State of California regulations define a material to be asbestos containing at 0.1% by weight. For this reason, any sample reported as containing a trace amount of asbestos is assumed to contain asbestos. The following is the laboratory result:

Material	Sample Number	Asbestos Content	Square Footage	Location of Material	Friable	Damage
Interior Plaster	01	Non	N/A	Throughout Interior Walls and Ceiling	No	No
	02	Detected				
	03					
12x12 Ceiling Tile and Mastic	04	Non	N/A	Throughout Interior Walls and Ceiling	No	No
	05	Detected				
	06					

Lead Survey Procedures

The lead survey was performed to identify painted building components for disposal during the construction activity. Once the suspect painted building components were identified, each painted building component was categorized into homogeneous sample areas. Homogeneous sample areas are defined as areas in which suspect painted building components are uniform in color, texture, application date and general appearance. Representative X-Ray Fluorescence (XRF) lead readings were obtained from each homogeneous sample area.

Detection Limit Guidelines for The Department of Health Services is 5000 parts per million (PPM) or 1.0 mg/cm² by the use of a hand held X-Ray Fluorescence (XRF) lead paint analyzer, however CALOSHA requires that all workers be properly protected when working with any painted building component containing levels of lead above 600 ppm or

0.06 mg/cm² in accordance with Title 8 CCR Section 1532.1. The following highlighted building components indicate lead containing painted surfaces above 1.0 mg/cm²

Location	Sample Number	Component	Substrate	Pbl mg/cm ²	Condition
Calibration	---	---	---	1.0	---
Calibration	---	---	---	1.0	---
Calibration	---	---	---	1.0	---
Hallway	1	Wall	Plaster	0.0	N/A
Hallway	2	Wall	Plaster	0.0	N/A
Hallway	3	Wall	Concrete	0.0	N/A
Hallway	4	Wall	Concrete	0.0	N/A
Room 360/362	5	Wall	Drywall	0.0	N/A
Room 360/362	6	Wall	Drywall	0.0	N/A

Any lead containing building components highlighted above is designed to aid the building owner, architect, construction manager, general contractors of potential lead containing building components within the scope of work. Other lead containing building components may exist at the property within concealed areas of the property or outside the scope of work. All conditions of paints identified in the above table were identified during the time of the survey. All removal work should proceed under all requirements pertaining to lead containing paint removal activities.

Since the building materials sampled during this survey could potentially contain asbestos and/or lead with limited access to the scope of work no intrusive sampling was performed in areas like (roofing underlay, walls/ceiling cavities, under flooring, underground, pools/spa) or any other areas that would cause damage to building materials potentially containing asbestos or lead.

Due to limited access of the property, other asbestos and/or lead containing building materials may exist at the property and/or outside the scope of work. If other building materials that are not identified in this report are discovered, all work should (stop) and these building materials should be sampled prior to any related activities. Also, if any changes to any regulation governing asbestos and or lead occurred after the date of this report, Ambient cannot be responsible for this changes.

Once the asbestos and/or lead containing building materials identified in this report have been remove and with full access to the building interior and exterior, Ambient recommends an intrusive survey be performed to identify any remaining asbestos and/or lead containing building materials within the property.

Any recommendations in this report are professional opinions based solely on visual observations and analytical analyses, as described in this report. Opinions and/or recommendations presented herein apply to site conditions existing at the time of our

investigation, they cannot necessarily apply to site changes of which this office is not aware of and/or has not had the opportunity to evaluate.

Please contact the undersigned with your questions and/or comments regarding the sample result and/or location of material.

Sincerely,
Signed for Ambient Environmental, Inc. by



John L. Payne
CAC #93-1226

Attachments

Appendix - A

Appendix - B

Appendix - C

Chain of Custody and Bulk Sample Log

Laboratory Certification of Analysis

Certification

APPENDIX A

**CHAIN OF CUSTODY
AND BULK SAMPLE LOG**



AMBIENT ENVIRONMENTAL, INC.
 Consulting/Engineering/Remediation

400 North Princeland Court Suite-3
 Corona, California 92879
 951 272-4730 Phone
 951 272-4731 Facsimile
 www.ambientenvinc.com

ASBESTOS BULK SAMPLE LOG Page 1 of

Client Name: UCL P: D

Project Location: SPRINKLER HALL NORTH UCL PLANT

Date: 7-21-19 Field Technician: John Payne

Project Number: 19-1487 Priority: ASAP 24 HR 3-5 Days

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
01	Handways	Insulation PLATE	
02			
03			
04		CAR PIA M MATT	
05			
06			

Chain of Custody Analytical Method: PLM: TEM: Other:

Sampled By		Date	Time
Relinquished By		Date	Time
Received By		Date 07-26-19	Time 9:35 AM
Relinquished By		Date	Time
Received By		Date	Time

APPENDIX B

**LABORATORY
CERTIFICATES OF ANALYSIS**



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: 101459-1

Ambient Environmental Inc
John Payne
400 N. Princeland Ct.
Ste. 3
Corona, CA 92879

Client ID: 5697
Report Number: B290658
Date Received: 07/26/19
Date Analyzed: 07/28/19
Date Printed: 07/29/19
First Reported: 07/29/19

Job ID/Site: 19-1487; Spieth Hall North, UC Riverside

FALI Job ID: 5697
Total Samples Submitted: 6
Total Samples Analyzed: 6

Date(s) Collected: 07/21/2019

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	51251687						
Layer: Beige Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
02	51251688						
Layer: Beige Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
03	51251689						
Layer: Beige Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
04	51251690						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (90 %)							
05	51251691						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (90 %)							
06	51251692						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (90 %)							

Report Number: B290658

Date Printed: 07/29/19

Client Name: Ambient Environmental Inc

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
-----------	------------	---------------	------------------	---------------	------------------	---------------	------------------



Tiffani Ludd, Laboratory Supervisor, Rancho Dominguez Laboratory

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

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APPENDIX C
CERTIFICATION

DEPARTMENT OF INDUSTRIAL RELATIONS
 Division of Occupational Safety and Health
 Asbestos Certification & Training Unit
 2424 Arden Way, Suite 495
 Sacramento, CA 95825-2417
 (916) 574-2993 Office (916) 483-0572 Fax
<http://www.dir.ca.gov/dosh/asbestos.html> acru@dir.ca.gov



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87

Ambient Environmental, Inc.
 John Lee Payne
 400 Princland Court, Suite 3
 Corona CA 92879

May 16, 2019

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email with any changes in your contact/ mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
 Senior Safety Engineer

Attachment: Certification Card

cc: File

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

John Lee Payne

Name

Certification No. 93-1226

Expires on 06/24/20

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.



Renewal – Card Attached (Revised 01/10/2019)

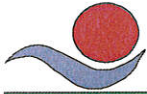
State of California Department of Public Health
Lead-Related Construction Certificate



<u>Certificate Type</u>	<u>Expiration Date</u>
Sampling Technician	10/23/2019

The seal of the State of California Department of Public Health is visible in the background of the certificate table. It features a central figure holding a scale, surrounded by the words "State of California" and "Department of Public Health".

John L. Payne ID # 25387



AMBIENT ENVIRONMENTAL, INC.

Consulting/Engineering/Remediation
400 North Princland Court Suite-3
Corona, California 92879
951 272-4730 *Phone*
951 272-4731 *Facsimile*
jp@ambientenv.com
www.ambientenvinc.com

July 31, 2019

University of California, Riverside
Planning Design & Construction
1223 University Avenue Suite 240
Riverside, California 92507
Attn: Mr. Fernando Nunez-Project Manager

Re: Asbestos and Lead Survey for the project located at: Spieth Hall South Rooms
360/362 and Hallways (Elevator Upgrade Project) University of Riverside,
California.

Dear Mr. Nunez,

Ambient Environmental Inc. performed an asbestos building material for the above referenced locations. Ambient Environmental Inc. on site field personnel obtained asbestos building material bulk samples and X-Ray Fluorescence (XRF) reading from painted building component that would be impacted during the elevator upgrade project located at the above referenced location. The survey was conducted on July 21, 2019 by Mr. John L. Payne a California Certified Asbestos Consultant #93-1226 a United States Environmental Protection Agency (USEPA) certified asbestos building inspector and a CDPHS #25387 Certified Lead Sampling Technician.

Asbestos Survey Procedures

The purpose of the asbestos survey was to locate and identify suspect building materials that will be impacted during the elevator upgrade project for detectable levels of asbestos. Once a visual inspection was performed, representative bulk samples were obtained from each homogeneous building material that would be impacted during the upgrade activity. Homogeneous building materials are defined as building materials that are uniform in texture, construction or application date and general appearance. Also, each homogeneous building material was divided into three main categories: Surfacing Materials, Thermal System Insulation and Miscellaneous Materials. The sample location, building material type, friability and condition of building materials were also documented. If building materials were installed at different times or if there is any reason to suspect that the

building material might be different through appearance, Ambient separated each building material into a new homogeneous sampling area.

Asbestos bulk samples were obtained in accordance with USEPA established guidelines document, “Guidance for Controlling Asbestos Containing Materials in Buildings” (USEPA 560/5-85-024, 1985) and USEPA 40 CFR Part 763.86 “Asbestos-Containing Materials in Schools, Final Rule” (AHERA). Each bulk sample was analyzed of asbestos content by Polarized Light Microscopy (PLM) EPA Method 600/R-93-116 Visual Area Estimation. Building materials not identified in this report may be present within hidden or concealed areas of the property or outside the scope of services.

Friable and non-friable building materials assessments were performed for each homogeneous building material by the use of hand pressure as defined in USEPA 40 CFR Part 763 “Asbestos-Containing Materials in Schools, Final Rule” (AHERA). Friable material is defined as any building material that by the means of hand pressure can be crumbled into a powder.

When each homogeneous sampling area was identified, a random sampling grid was utilized for sample collection of each building material as described in the EPA guidance document, Asbestos in Building: Simplified Sampling Scheme for Friable Surfacing Materials (EPA 560/5-85-030a, October 1985 Random Number Diagrams). The minimum number of samples was obtained for each identified friable homogeneous area based upon the overall square footage of material in table-1. The physical condition, friability, accessibility, activity and damage of building materials were also assessed and documented. The following procedures were performed during the survey

- Perform a visual assessment to identify the location and type of friable/non-friable building materials.
- Obtain representative bulk samples from suspect building materials per the below table-1.
- Samples were analyzed by an independent accredited laboratory for the presence of asbestos by PLM analysis USEPA 40 CFR Part 763.87.
- Present all survey results in a written report including recommendations, locations and laboratory results. All findings, recommendations and analytical data presented in this report are based on the information (assessment and sampling data) obtained by our inspector during the survey.

Sample Table-1

Size of Sampling Area	Number of Samples Collected
Less Than 1,000 sq. ft.	3 – Samples
Between 1,000 & 5,000 sq. ft.	5 – Samples

Greater than 5,000 sq. Ft.	*7 – Samples
----------------------------	--------------

***The recommended number of samples per AHERA is nine for areas greater than 5,000 square feet, or at least one additional sample per additional 1,000 square feet for any friable building material.**

All bulk samples were submitted to Forensic Analytical located at: 2959 Pacific Commerce Drive Rancho Dominguez, California (310) 763-2374. Forensic Analytical is accredited by the American Industrial Hygiene Association (AIHA), National Voluntary Laboratory Accreditation Program (NVLAP #101459-0), National Institute of Standards and Testing (NIST), and is a successful participant in the Proficiency Analytical Testing Program (PAT). Each sample analyzed by Polarized Light Microscopy (PLM) method in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples EPA - 600/M4-82-020" dated December 1982 and adopted by the National Voluntary Laboratory Accreditation Program (NVLAP) Title 15, part 7 of the Code of Federal Register as affiliated with the National Institute for Standards and Testing (NIST).

Current Federal USEPA Regulations define a material to be asbestos containing at 1% by weight. Current State of California regulations define a material to be asbestos containing at 0.1% by weight. For this reason, any sample reported as containing a trace amount of asbestos is assumed to contain asbestos. The following is the laboratory result:

Material	Sample Number	Asbestos Content	Square Footage	Location of Material	Friable	Damage
Drywall and Joint Compound	01	Non	N/A	Throughout Interior Walls and Ceiling	No	No
	02	Detected				
	03					
12x12 Ceiling Tile and Mastic	04	Non	N/A	Throughout Interior Walls and Ceiling	No	No
	05	Detected				
	06					
Interior Plaster	07	Non	N/A	Throughout Interior Walls and Ceilings	No	No
	08	Detected				
	09					

Lead Survey Procedures

The lead survey was performed to identify painted building components for disposal during the construction activity. Once the suspect painted building components were identified, each painted building component was categorized into homogeneous sample areas. Homogeneous sample areas are defined as areas in which suspect painted building components are uniform in color, texture, application date and general appearance. Representative X-Ray Fluorescence (XRF) lead readings were obtained from each homogeneous sample area.

Detection Limit Guidelines for The Department of Health Services is 5000 parts per million (PPM) or 1.0 mg/cm² by the use of a hand held X-Ray Fluorescence (XRF) lead paint analyzer, however CALOSHA requires that all workers be properly protected when working with any painted building component containing levels of lead above 600 ppm or 0.06 mg/cm² in accordance with Title 8 CCR Section 1532.1. The following highlighted building components indicate lead containing painted surfaces above 1.0 mg/cm²

Location	Sample Number	Component	Substrate	Pbl mg/cm ²	Condition
Calibration	---	---	---	1.0	---
Calibration	---	---	---	1.0	---
Calibration	---	---	---	1.0	---
Hallway	1	Wall	Plaster	0.0	N/A
Hallway	2	Wall	Plaster	0.0	N/A
Hallway	3	Wall	Concrete	0.0	N/A
Hallway	4	Wall	Concrete	0.0	N/A
Room 360/362	5	Wall	Drywall	0.0	N/A
Room 360/362	6	Wall	Drywall	0.0	N/A

Any lead containing building components highlighted above is designed to aid the building owner, architect, construction manager, general contractors of potential lead containing building components within the scope of work. Other lead containing building components may exist at the property within concealed areas of the property or outside the scope of work. All conditions of paints identified in the above table were identified during the time of the survey. All removal work should proceed under all requirements pertaining to lead containing paint removal activities.

Since the building materials sampled during this survey could potentially contain asbestos and/or lead with limited access to the scope of work no intrusive sampling was performed in areas like (roofing underlay, walls/ceiling cavities, under flooring, underground, pools/spa) or any other areas that would cause damage to building materials potentially containing asbestos or lead.

Due to limited access of the property, other asbestos and/or lead containing building materials may exist at the property and/or outside the scope of work. If other building materials that are not identified in this report are discovered, all work should (stop) and these building materials should be sampled prior to any related activities. Also, if any changes to any regulation governing asbestos and or lead occurred after the date of this report, Ambient cannot be responsible for this changes.

Once the asbestos and/or lead containing building materials identified in this report have been remove and with full access to the building interior and exterior, Ambient recommends an intrusive survey be performed to identify any remaining asbestos and/or lead containing building materials within the property.

Any recommendations in this report are professional opinions based solely on visual observations and analytical analyses, as described in this report. Opinions and/or recommendations presented herein apply to site conditions existing at the time of our investigation, they cannot necessarily apply to site changes of which this office is not aware of and/or has not had the opportunity to evaluate.

Please contact the undersigned with your questions and/or comments regarding the sample result and/or location of material.

Sincerely,
Signed for Ambient Environmental, Inc. by

John L. Payne
CAC #93-1226

Attachments

Appendix - A
Appendix - B
Appendix - C

Chain of Custody and Bulk Sample Log
Laboratory Certification of Analysis
Certification

APPENDIX A

**CHAIN OF CUSTODY
AND BULK SAMPLE LOG**



AMBIENT ENVIRONMENTAL, INC.
 Consulting/Engineering/Remediation

400 North Princeland Court Suite-3
 Corona, California 92879
 951 272-4730 Phone
 951 272-4731 Facsimile
 www.ambientenvinc.com

ASBESTOS BULK SAMPLE LOG Page 1 of

Client Name: UCA P/D

Project Location: SPRINKLER HALL SOUTH UCA CAMPUS

Date: 7-21-15 Field Technician: Tom P

Project Number: 19-1488 Priority: ASAP 24 HR 3-5 Days

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
01	Room 360/362	Asbestos Bulk	
02	↓ ↓	↓ ↓	
03	↓ ↓	↓ ↓	
04	Hallway	Asbestos Bulk	
05	↓ ↓	↓ ↓	
06	↓ ↓	↓ ↓	
07	Hallway	Asbestos Bulk	
08	↓ ↓	↓ ↓	
09	↓ ↓	↓ ↓	

Chain of Custody

Analytical Method: PLM: 2 TEM: Other:

Sampled By	<u>[Signature]</u>	Date	Time
Relinquished By	<u>[Signature]</u>	Date	Time
Received By	<u>Carroll, FE</u>	Date <u>07-26-15</u>	Time <u>9:35 AM</u>
Relinquished By		Date	Time
Received By		Date	Time

APPENDIX B

**LABORATORY
CERTIFICATES OF ANALYSIS**



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: 101459-1

Ambient Environmental Inc
John Payne
400 N. Princeland Ct.
Ste. 3
Corona, CA 92879

Client ID: 5697
Report Number: B290659
Date Received: 07/26/19
Date Analyzed: 07/29/19
Date Printed: 07/29/19
First Reported: 07/29/19

Job ID/Site: 19-1488; Spieth Hall South, UC Riverside

FALI Job ID: 5697
Total Samples Submitted: 9
Total Samples Analyzed: 9

Date(s) Collected: 07/21/2019

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	51251693						
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (5 %)							
02	51251694						
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (5 %)							
03	51251695						
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (5 %)							
04	51251696						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Beige Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (70 %)							
05	51251697						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Beige Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (70 %)							
06	51251698						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Beige Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (70 %)							

Report Number: B290659

Date Printed: 07/29/19

Client Name: Ambient Environmental Inc

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
07	51251699						
Layer: Beige Plaster			ND				
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
08	51251700						
Layer: Beige Plaster			ND				
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
09	51251701						
Layer: Beige Plaster			ND				
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							



Tiffani Ludd, Laboratory Supervisor, Rancho Dominguez Laboratory

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

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

APPENDIX C

CERTIFICATION

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Certification & Training Unit
2424 Arden Way, Suite 495
Sacramento, CA 95825-2417
(916) 574-2993 Office (916) 483-0572 Fax
<http://www.dir.ca.gov/dosh/asbestos.html> acru@dir.ca.gov



310191226C 80 87

Ambient Environmental, Inc.
John Lee Payne
400 Princland Court, Suite 3
Corona CA 92879

May 16, 2019

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email with any changes in your contact/ mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File

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

John Lee Payne
Name

Certification No. 93-1226

Expires on 06/24/20

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.

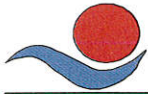


State of California Department of Public Health
Lead-Related
Construction
Certificate

<u>Certificate Type</u>	<u>Expiration Date</u>
Sampling Technician	10/23/2019



John L. Payne ID #: 25387



AMBIENT ENVIRONMENTAL, INC.

Consulting/Engineering/Remediation

400 North Princland Court Suite-3

Corona, California 92879

951 272-4730 *Phone*

951 272-4731 *Facsimile*

jp@ambientenv.com

www.ambientenvinc.com

July 31, 2019

University of California, Riverside

Planning Design & Construction

1223 University Avenue Suite 240

Riverside, California 92507

Attn: Mr. Fernando Nunez-Project Manager

Re: Asbestos and Lead Survey for the project located at: Watkins Hall Rooms 1329, 1237 and 1233 (Elevator Upgrade Project) University of Riverside, California.
PO #SC10804611-CH2 Project #112008

Dear Mr. Nunez,

Ambient Environmental Inc. performed an asbestos building material for the above referenced locations. Ambient Environmental Inc. on site field personnel obtained asbestos building material bulk samples and X-Ray Fluorescence (XRF) reading from painted building component that would be impacted during the elevator upgrade project located at the above referenced location. The survey was conducted on July 21, 2019 by Mr. John L. Payne a California Certified Asbestos Consultant #93-1226 a United States Environmental Protection Agency (USEPA) certified asbestos building inspector and a CDPHS #25387 Certified Lead Sampling Technician.

Asbestos Survey Procedures

The purpose of the asbestos survey was to locate and identify suspect building materials that will be impacted during the elevator upgrade project for detectable levels of asbestos. Once a visual inspection was performed, representative bulk samples were obtained from each homogeneous building material that would be impacted during the upgrade activity. Homogeneous building materials are defined as building materials that are uniform in texture, construction or application date and general appearance. Also, each homogeneous building material was divided into three main categories: Surfacing Materials, Thermal System Insulation and Miscellaneous Materials. The sample location, building material type, friability and condition of building materials were also documented. If building materials were installed at different times or if there is any reason to suspect that the building material might be different through appearance, Ambient separated each building material into a new homogeneous sampling area.

Asbestos bulk samples were obtained in accordance with USEPA established guidelines document, “Guidance for Controlling Asbestos Containing Materials in Buildings” (USEPA 560/5-85-024, 1985) and USEPA 40 CFR Part 763.86 “Asbestos-Containing Materials in Schools, Final Rule” (AHERA). Each bulk sample was analyzed of asbestos content by Polarized Light Microscopy (PLM) EPA Method 600/R-93-116 Visual Area Estimation. Building materials not identified in this report may be present within hidden or concealed areas of the property or outside the scope of services.

Friable and non-friable building materials assessments were performed for each homogeneous building material by the use of hand pressure as defined in USEPA 40 CFR Part 763 “Asbestos-Containing Materials in Schools, Final Rule” (AHERA). Friable material is defined as any building material that by the means of hand pressure can be crumbled into a powder.

When each homogeneous sampling area was identified, a random sampling grid was utilized for sample collection of each building material as described in the EPA guidance document, Asbestos in Building: Simplified Sampling Scheme for Friable Surfacing Materials (EPA 560/5-85-030a, October 1985 Random Number Diagrams). The minimum number of samples was obtained for each identified friable homogeneous area based upon the overall square footage of material in table-1. The physical condition, friability, accessibility, activity and damage of building materials were also assessed and documented. The following procedures were performed during the survey

- Perform a visual assessment to identify the location and type of friable/non-friable building materials.
- Obtain representative bulk samples from suspect building materials per the below table-1.
- Samples were analyzed by an independent accredited laboratory for the presence of asbestos by PLM analysis USEPA 40 CFR Part 763.87.
- Present all survey results in a written report including recommendations, locations and laboratory results. All findings, recommendations and analytical data presented in this report are based on the information (assessment and sampling data) obtained by our inspector during the survey.

Sample Table-1

Size of Sampling Area	Number of Samples Collected
Less Than 1,000 sq. ft.	3 – Samples
Between 1,000 & 5,000 sq. ft.	5 – Samples
Greater than 5,000 sq. Ft.	*7 – Samples

***The recommended number of samples per AHERA is nine for areas greater than 5,000 square feet, or at least one additional sample per additional 1,000 square feet for any friable building material.**

All bulk samples were submitted to Forensic Analytical located at: 2959 Pacific Commerce Drive Rancho Dominguez, California (310) 763-2374. Forensic Analytical is accredited by the American Industrial Hygiene Association (AIHA), National Voluntary Laboratory Accreditation Program (NVLAP #101459-0), National Institute of Standards and Testing (NIST), and is a successful participant in the Proficiency Analytical Testing Program (PAT). Each sample analyzed by Polarized Light Microscopy (PLM) method in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples EPA - 600/M4-82-020" dated December 1982 and adopted by the National Voluntary Laboratory Accreditation Program (NVLAP) Title 15, part 7 of the Code of Federal Register as affiliated with the National Institute for Standards and Testing (NIST).

Current Federal USEPA Regulations define a material to be asbestos containing at 1% by weight. Current State of California regulations define a material to be asbestos containing at 0.1% by weight. For this reason, any sample reported as containing a trace amount of asbestos is assumed to contain asbestos. The following is the laboratory result:

Material	Sample Number	Asbestos Content	Square Footage	Location of Material	Friable	Damage
Interior Plaster	01	Non	N/A	Throughout Interior Walls and Ceiling	No	No
	02	Detected				
	03					
12x12 Ceiling Tile and Mastic	04	Non	N/A	Throughout Interior Walls and Ceiling	No	No
	05	Detected				
	06					
Ceiling Tile	07	Non	N/A	Throughout Interior Walls and Ceilings	No	No
	08	Detected				
	09					
Vinyl Floor Tile and Mastic	10	Tile 5%	90 SF	Room 1329	No	No
	11	Chrysotile				
	12	Mastic Non Detected				

The asbestos containing building materials table above is designed to aid the building owner, architect, construction manager, general contractors and potential asbestos abatement contractors in locating asbestos containing building materials within the scope of work. Other asbestos containing building materials may exist at the property within concealed areas of the property or outside the scope of work. All square footages of asbestos containing building materials should be field verified prior to submitting any removal quotes.

Current federal and state regulations (SCAQMD Rule 1403) require if during any renovation or demolition activities asbestos containing building materials will be disturbed, then only contractors who have been properly trained in the correct handling of asbestos containing buildings conduct any repair, removal and/or demolition activities. A SCAQMD notification will have to be submitted and approved for any removal of 100 square feet or 160 linear feet of asbestos containing building materials. If any asbestos containing building materials becomes damaged or disturbed during any construction activities, then a SCAQMD Procedures-5 work plan should be written and approved prior to any asbestos removal activity. All environmental work should proceed under the guidance or direction of an independent State Certified Consultant.

Lead Survey Procedures

The lead survey was performed to identify painted building components for disposal during the construction activity. Once the suspect painted building components were identified, each painted building component was categorized into homogeneous sample areas. Homogeneous sample areas are defined as areas in which suspect painted building components are uniform in color, texture, application date and general appearance. Representative X-Ray Fluorescence (XRF) lead readings were obtained from each homogeneous sample area.

Detection Limit Guidelines for The Department of Health Services is 5000 parts per million (PPM) or 1.0 mg/cm² by the use of a hand held X-Ray Fluorescence (XRF) lead paint analyzer, however CALOSHA requires that all workers be properly protected when working with any painted building component containing levels of lead above 600 ppm or 0.06 mg/cm² in accordance with Title 8 CCR Section 1532.1. The following highlighted building components indicate lead containing painted surfaces above 1.0 mg/cm²

Location	Sample Number	Component	Substrate	Pbl mg/cm ²	Condition
Calibration	---	---	---	1.0	---
Calibration	---	---	---	1.0	---
Calibration	---	---	---	1.0	---
Room 1329	1	Wall	Plaster	0.0	N/A
Room 1237	2	Wall	Plaster	0.0	N/A
Room 1233	3	Wall	Plaster	0.0	N/A
Room 1329	4	Wall	Ceramic Tile	1.9	N/A

Any lead containing building components highlighted above is designed to aid the building owner, architect, construction manager, general contractors of potential lead containing building components within the scope of work. Other lead containing building components may exist at the property within concealed areas of the property or outside the scope of work. All conditions of paints identified in the above table were identified

during the time of the survey. All removal work should proceed under all requirements pertaining to lead containing paint removal activities.

Since the building materials sampled during this survey could potentially contain asbestos and/or lead with limited access to the scope of work no intrusive sampling was performed in areas like (roofing underlay, walls/ceiling cavities, under flooring, underground, pools/spa) or any other areas that would cause damage to building materials potentially containing asbestos or lead.

Due to limited access of the property, other asbestos and/or lead containing building materials may exist at the property and/or outside the scope of work. If other building materials that are not identified in this report are discovered, all work should (stop) and these building materials should be sampled prior to any related activities. Also, if any changes to any regulation governing asbestos and or lead occurred after the date of this report, Ambient cannot be responsible for these changes.

Once the asbestos and/or lead containing building materials identified in this report have been remove and with full access to the building interior and exterior, Ambient recommends an intrusive survey be performed to identify any remaining asbestos and/or lead containing building materials within the property.

Any recommendations in this report are professional opinions based solely on visual observations and analytical analyses, as described in this report. Opinions and/or recommendations presented herein apply to site conditions existing at the time of our investigation, they cannot necessarily apply to site changes of which this office is not aware of and/or has not had the opportunity to evaluate.

Please contact the undersigned with your questions and/or comments regarding the sample result and/or location of material.

Sincerely,
Signed for Ambient Environmental, Inc. by

John L. Payne
CAC #93-1226

Attachments

Appendix - A	Chain of Custody and Bulk Sample Log
Appendix - B	Laboratory Certification of Analysis
Appendix - C	Certification

APPENDIX A

**CHAIN OF CUSTODY
AND BULK SAMPLE LOG**



AMBIENT ENVIRONMENTAL, INC.
Consulting/Engineering/Remediation

400 North Princeland Court Suite-3
Corona, California 92879
951 272-4730 Phone
951 272-4731 Facsimile
www.ambientenvinc.com

ASBESTOS BULK SAMPLE LOG Page 1 of 2

Client Name: UCR P: D

Project Location: WATKINS HALL UC RIVERSIDE

Date: 7-21-19 Field Technician: Donal Page

Project Number: 19-1490 Priority: ASAP 24 HR 3-5 Days

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
01	Room 1329	Inj. prior Plaster	
02	Room 1237	↓ ↓	
03	Room 1233	↓ ↓	
04	Hallway	12x12 ch. & tile and mastic	
05	1237 W/14/CM	↓ ↓	
06	1233 ABUM 2x4 ch. &	↓ ↓	
07	Room 1233	ch. & tile	
08	↓ ↓	↓ ↓	
09	↓ ↓	↓ ↓	
10	Room 1329	Unj. floor tile mastic	

Chain of Custody Analytical Method: PLM: > TEM: Other:

Sampled By		Date	Time
Relinquished By		Date	Time
Received By		Date <u>07-26-19</u>	Time <u>9:35 AM</u>
Relinquished By		Date	Time
Received By		Date	Time



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Corona, California 92879
951 272-4730 Phone
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www.ambientenvinc.com

ASBESTOS BULK SAMPLE LOG Page 2 of 2

Client Name: UCR P'c D

Project Location: WAT King Hall UC Riverside

Date: 7-21-19 Field Technician: John Pagan

Project Number: 19-1490 Priority: ASAP 24 HR X 3-5 Days

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
11	Room 1329	Urgy Flow Pln M MASS	
12	+ L	+ L	

Chain of Custody Analytical Method: PLM: X TEM: Other:

Sampled By		Date	Time
Relinquished By		Date	Time
Received By	<i>[Signature]</i>	Date <u>07-26-19</u>	Time <u>9:35am</u>
Relinquished By		Date	Time
Received By		Date	Time

APPENDIX B

**LABORATORY
CERTIFICATES OF ANALYSIS**



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: 101459-1

Ambient Environmental Inc
John Payne
400 N. Princeland Ct.
Ste. 3
Corona, CA 92879

Client ID: 5697
Report Number: B290674
Date Received: 07/26/19
Date Analyzed: 07/29/19
Date Printed: 07/29/19
First Reported: 07/29/19

Job ID/Site: 19-1490; Watkins Hall, UC Riverside

FALI Job ID: 5697
Total Samples Submitted: 12
Total Samples Analyzed: 12

Date(s) Collected: 07/21/2019

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	51251738						
Layer: Beige Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
02	51251739						
Layer: Beige Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
03	51251740						
Layer: Beige Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
04	51251741						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
05	51251742						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
06	51251743						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
07	51251744						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (90 %)							

Client Name: Ambient Environmental Inc

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
08	51251745						
		Layer: Brown Mastic			ND		
		Layer: Tan Fibrous Material			ND		
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (90 %)					
09	51251746						
		Layer: Brown Mastic			ND		
		Layer: Tan Fibrous Material			ND		
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (90 %)					
10	51251747						
		Layer: Red Tile		Chrysotile	5 %		
		Layer: Black Mastic			ND		
		Total Composite Values of Fibrous Components:		Asbestos (5%)			
		Cellulose (Trace)					
11	51251748						
		Layer: Red Tile		Chrysotile	5 %		
		Layer: Black Mastic			ND		
		Total Composite Values of Fibrous Components:		Asbestos (5%)			
		Cellulose (Trace)					
12	51251749						
		Layer: Red Tile		Chrysotile	5 %		
		Layer: Black Mastic			ND		
		Total Composite Values of Fibrous Components:		Asbestos (5%)			
		Cellulose (Trace)					



Tiffani Ludd, Laboratory Supervisor, Rancho Dominguez Laboratory

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

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APPENDIX C

CERTIFICATION

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Certification & Training Unit
2424 Arden Way, Suite 495
Sacramento, CA 95825-2417
(916) 574-2993 Office (916) 483-0572 Fax
<http://www.dir.ca.gov/dosh/asbestos.html> acru@dir.ca.gov



310191226C 80 87

Ambient Environmental, Inc.
John Lee Payne
400 Princland Court, Suite 3
Corona CA 92879

May 16, 2019

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email with any changes in your contact/ mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File

Renewal - Card Attached (Revised 01/10/2019)

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



John Lee Payne
Name

Certification No. 93-1226

Expires on 06/24/20

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.

State of California Department of Public Health
Lead-Related
Construction
Certificate



John L. Payne ID #: 25387



AMBIENT ENVIRONMENTAL, INC.

Consulting/Engineering/Remediation
400 North Princland Court Suite-3
Corona, California 92879
951 272-4730 Phone
951 272-4731 Facsimile
jp@ambientenv.com
www.ambientenvinc.com

July 31, 2019

University of California, Riverside
Planning Design & Construction
1223 University Avenue Suite 240
Riverside, California 92507
Attn: Mr. Fernando Nunez-Project Manager

Re: Asbestos and Lead Survey for the project located at: Webber Hall (Elevator Upgrade Project) University of Riverside, California.
PO #SC10804611-CH2 Project #112008

Dear Mr. Nunez,

Ambient Environmental Inc. performed an asbestos building material for the above referenced locations. Ambient Environmental Inc. on site field personnel obtained asbestos building material bulk samples and X-Ray Fluorescence (XRF) reading from painted building component that would be impacted during the elevator upgrade project located at the above referenced location. The survey was conducted on July 21, 2019 by Mr. John L. Payne a California Certified Asbestos Consultant #93-1226 a United States Environmental Protection Agency (USEPA) certified asbestos building inspector and a CDPHS #25387 Certified Lead Sampling Technician.

Asbestos Survey Procedures

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Asbestos bulk samples were obtained in accordance with USEPA established guidelines document, “Guidance for Controlling Asbestos Containing Materials in Buildings” (USEPA 560/5-85-024, 1985) and USEPA 40 CFR Part 763.86 “Asbestos-Containing Materials in Schools, Final Rule” (AHERA). Each bulk sample was analyzed of asbestos content by Polarized Light Microscopy (PLM) EPA Method 600/R-93-116 Visual Area Estimation. Building materials not identified in this report may be present within hidden or concealed areas of the property or outside the scope of services.

Friable and non-friable building materials assessments were performed for each homogeneous building material by the use of hand pressure as defined in USEPA 40 CFR Part 763 “Asbestos-Containing Materials in Schools, Final Rule” (AHERA). Friable material is defined as any building material that by the means of hand pressure can be crumbled into a powder.

When each homogeneous sampling area was identified, a random sampling grid was utilized for sample collection of each building material as described in the EPA guidance document, Asbestos in Building: Simplified Sampling Scheme for Friable Surfacing Materials (EPA 560/5-85-030a, October 1985 Random Number Diagrams). The minimum number of samples was obtained for each identified friable homogeneous area based upon the overall square footage of material in table-1. The physical condition, friability, accessibility, activity and damage of building materials were also assessed and documented. The following procedures were performed during the survey

- Perform a visual assessment to identify the location and type of friable/non-friable building materials.
- Obtain representative bulk samples from suspect building materials per the below table-1.
- Samples were analyzed by an independent accredited laboratory for the presence of asbestos by PLM analysis USEPA 40 CFR Part 763.87.
- Present all survey results in a written report including recommendations, locations and laboratory results. All findings, recommendations and analytical data presented in this report are based on the information (assessment and sampling data) obtained by our inspector during the survey.

Sample Table-1

Size of Sampling Area	Number of Samples Collected
Less Than 1,000 sq. ft.	3 – Samples
Between 1,000 & 5,000 sq. ft.	5 – Samples
Greater than 5,000 sq. Ft.	*7 – Samples

***The recommended number of samples per AHERA is nine for areas greater than 5,000 square feet, or at least one additional sample per additional 1,000 square feet for any friable building material.**

All bulk samples were submitted to Forensic Analytical located at: 2959 Pacific Commerce Drive Rancho Dominguez, California (310) 763-2374. Forensic Analytical is accredited by the American Industrial Hygiene Association (AIHA), National Voluntary Laboratory Accreditation Program (NVLAP #101459-0), National Institute of Standards and Testing (NIST), and is a successful participant in the Proficiency Analytical Testing Program (PAT). Each sample analyzed by Polarized Light Microscopy (PLM) method in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples EPA - 600/M4-82-020" dated December 1982 and adopted by the National Voluntary Laboratory Accreditation Program (NVLAP) Title 15, part 7 of the Code of Federal Register as affiliated with the National Institute for Standards and Testing (NIST).

Current Federal USEPA Regulations define a material to be asbestos containing at 1% by weight. Current State of California regulations define a material to be asbestos containing at 0.1% by weight. For this reason, any sample reported as containing a trace amount of asbestos is assumed to contain asbestos. The following is the laboratory result:

Material	Sample Number	Asbestos Content	Square Footage	Location of Material	Friable	Damage
Drywall and Joint Compound	01	Non	N/A	Third Floor Walls	No	No
	02	Detected				
	03					
Interior Plaster	04	Non	N/A	Throughout Interior Walls and Ceiling	No	No
	05	Detected				
	06					
12x12 Ceiling Tiles and Mastic	07	Non	N/A	Throughout Ceilings	No	No
	08	Detected				
	09					

Lead Survey Procedures

The lead survey was performed to identify painted building components for disposal during the construction activity. Once the suspect painted building components were identified, each painted building component was categorized into homogeneous sample areas. Homogeneous sample areas are defined as areas in which suspect painted building components are uniform in color, texture, application date and general appearance. Representative X-Ray Fluorescence (XRF) lead readings were obtained from each homogeneous sample area.

Detection Limit Guidelines for The Department of Health Services is 5000 parts per million (PPM) or 1.0 mg/cm² by the use of a hand held X-Ray Fluorescence (XRF) lead

paint analyzer, however CALOSHA requires that all workers be properly protected when working with any painted building component containing levels of lead above 600 ppm or 0.06 mg/cm² in accordance with Title 8 CCR Section 1532.1. The following highlighted building components indicate lead containing painted surfaces above 1.0 mg/cm²

Location	Sample Number	Component	Substrate	Pbl mg/cm ²	Condition
Calibration	---	---	---	1.0	---
Calibration	---	---	---	1.0	---
Calibration	---	---	---	1.0	---
Hallway	1	Wall	Plaster	0.0	N/A
Hallway	2	Wall	Plaster	0.0	N/A
Third Floor	3	Wall	Drywall	0.0	N/A
Third	4	Wall	Drywall	0.0	N/A

Any lead containing building components highlighted above is designed to aid the building owner, architect, construction manager, general contractors of potential lead containing building components within the scope of work. Other lead containing building components may exist at the property within concealed areas of the property or outside the scope of work. All conditions of paints identified in the above table were identified during the time of the survey. All removal work should proceed under all requirements pertaining to lead containing paint removal activities.

Since the building materials sampled during this survey could potentially contain asbestos and/or lead with limited access to the scope of work no intrusive sampling was performed in areas like (roofing underlay, walls/ceiling cavities, under flooring, underground, pools/spa) or any other areas that would cause damage to building materials potentially containing asbestos or lead.

Due to limited access of the property, other asbestos and/or lead containing building materials may exist at the property and/or outside the scope of work. If other building materials that are not identified in this report are discovered, all work should (stop) and these building materials should be sampled prior to any related activities. Also, if any changes to any regulation governing asbestos and or lead occurred after the date of this report, Ambient cannot be responsible for these changes.

Once the asbestos and/or lead containing building materials identified in this report have been remove and with full access to the building interior and exterior, Ambient recommends an intrusive survey be performed to identify any remaining asbestos and/or lead containing building materials within the property.

Any recommendations in this report are professional opinions based solely on visual observations and analytical analyses, as described in this report. Opinions and/or recommendations presented herein apply to site conditions existing at the time of our

investigation, they cannot necessarily apply to site changes of which this office is not aware of and/or has not had the opportunity to evaluate.

Please contact the undersigned with your questions and/or comments regarding the sample result and/or location of material.

Sincerely,
Signed for Ambient Environmental, Inc. by

John L. Payne
CAC #93-1226

Attachments

Appendix - A

Appendix - B

Appendix - C

Chain of Custody and Bulk Sample Log

Laboratory Certification of Analysis

Certification

APPENDIX A

**CHAIN OF CUSTODY
AND BULK SAMPLE LOG**



AMBIENT ENVIRONMENTAL, INC.
 Consulting/Engineering/Remediation

400 North Princland Court Suite-3
 Corona, California 92879
 951 272-4730 Phone
 951 272-4731 Facsimile
 www.ambientenvinc.com

ASBESTOS BULK SAMPLE LOG Page 1 of 1

Client Name: UAC P-10

Project Location: WRBBN BAN

Date: 7-21-19 Field Technician: Donal Ryan

Project Number: 19-1485 Priority: ASAP 24 HR 7 3-5 Days

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
01	3rd Floor	Organic Detergent Comp	
02	↓ ↓	↓ ↓	
03	↓ ↓	↓ ↓	
04	2nd Floor Horizontal	FRONT PLATE	
05	+ L	↓ ↓	
06	15th Floor Horizontal	↓ ↓	
07	Horizontal 2nd	CLAY TILE M	
08	↓ ↓		
09	Horizontal 4th	↓ ↓	

Chain of Custody Analytical Method: PLM: 7 TEM: Other:

Sampled By		Date	Time
Relinquished By		Date	Time
Received By	<i>[Signature]</i>	Date	Time
Relinquished By		Date	Time
Received By		Date	Time

[Handwritten: 07-26-19 9:35 AM]

APPENDIX B

**LABORATORY
CERTIFICATES OF ANALYSIS**

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: 101459-1

Ambient Environmental Inc
John Payne
400 N. Princeland Crt.
Ste. 3
Corona, CA 92879

Client ID: 5697
Report Number: B290649
Date Received: 07/26/19
Date Analyzed: 07/29/19
Date Printed: 07/29/19
First Reported: 07/29/19

Job ID/Site: 19-1485; WRBBN Hall

FALI Job ID: 5697
Total Samples Submitted: 9
Total Samples Analyzed: 9

Date(s) Collected: 07/21/2019


Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	51251672						
Layer: White Drywall			ND				
Layer: White Skimcoat/Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (5 %)							
02	51251673						
Layer: White Drywall			ND				
Layer: White Skimcoat/Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (5 %)							
03	51251674						
Layer: White Drywall			ND				
Layer: White Skimcoat/Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (5 %)							
04	51251675						
Layer: Beige Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
05	51251676						
Layer: Beige Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
06	51251677						
Layer: Beige Plaster			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Report Number: B290649

Date Printed: 07/29/19

Client Name: Ambient Environmental Inc

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
07	51251678						
		Layer: Brown Mastic	ND				
		Layer: Tan Fibrous Material	ND				
		Total Composite Values of Fibrous Components:	Asbestos (ND)				
		Cellulose (90 %)					
08	51251679						
		Layer: Brown Mastic	ND				
		Layer: Tan Fibrous Material	ND				
		Total Composite Values of Fibrous Components:	Asbestos (ND)				
		Cellulose (90 %)					
09	51251680						
		Layer: Brown Mastic	ND				
		Layer: Tan Fibrous Material	ND				
		Total Composite Values of Fibrous Components:	Asbestos (ND)				
		Cellulose (90 %)					



Tiffani Ludd, Laboratory Supervisor, Rancho Dominguez Laboratory

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

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

APPENDIX C

CERTIFICATION

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Certification & Training Unit
2424 Arden Way, Suite 495
Sacramento, CA 95825-2417
(916) 574-2993 Office (916) 483-0572 Fax
<http://www.dir.ca.gov/dosh/asbestos.html> acru@dir.ca.gov



310191226C 80 87

Ambient Environmental, Inc.
John Lee Payne
400 Princland Court, Suite 3
Corona CA 92879

May 16, 2019

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email with any changes in your contact/ mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

A handwritten signature in blue ink, appearing to read "Jeff Ferrell".

Attachment: Certification Card

cc: File

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

John Lee Payne

Name

Certification No. 93-1226

Expires on 06/24/20

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.



Renewal - Card Attached (Revised 01/10/2019)

State of California Department of Public Health
Lead-Related
Construction
Certificate



John L. Payne ID #: 25387

SPECIFICATIONS

TABLE OF CONTENTS

Division 01 – General Requirements

<u>Initial Issue</u>	<u>Revision</u>	<u>Section #</u>	<u>Title</u>
		01 1100	Summary of Work
		01 1400	Work Restrictions
		01 2300	Alternates
		01 2500	Product Options, Requirements & Substitution Procedures
		01 2613	Requests for Information & Instructions (RFI) Procedures
		01 3113	Coordination
		01 3119	Project Meetings
		01 3200	Document Control
		01 3216	Schedules
		01 3280	Electronic Data Transfer
		01 3300	Submittals
		01 3520	Design Assist Procedures
		01 3543	Environmental Procedures
		01 3546	Indoor Air Quality Procedures & Requirements
		01 4100	Regulatory Requirements
		01 4200	References
		01 4300	Inspection of Work
		01 4500	Quality Control
		01 4516	Contractor’s Quality Control Program
		01 4520	Concrete Moisture Testing
		01 5100	Temporary Utilities
		01 5200	Construction Facilities
		01 5300	Temporary Construction
		01 5400	Construction Aids

<u>Initial Issue</u>	<u>Revision</u>	<u>Section #</u>	<u>Title</u>
		01 5500	Vehicular Access and Parking
		01 5600	Temporary Barriers and Enclosures
		01 5700	Temporary Controls
		01 5800	Temporary Signage
		01 6000	Product Requirements
		01 7100	Examination and Preparation
		01 7329	Cutting and Patching
		01 7400	Cleaning and Waste Management
		01 7700	Contract Closeout
		01 7839	As-Built Documents
		01 8113	Sustainable Design Requirements
		01 9113	General Commissioning Requirements

Division 2- Existing Conditions

02 8216 Hazardous Soil, Asbestos, Lead Abatement of Non-Friable Floor Tile

Division 14 – Conveying Equipment

14 2210	Modernization of Elevators – Athletic Building
14 2210	Modernization of Elevators - Entomology
14 2210	Modernization of Elevators – Spieth Hall
14 2210	Modernization of Elevators – Watkins Hall
14 2210	Modernization of Elevators – Webber Hall

END OF SPECIFICATIONS
TABLE OF CONTENTS